GARMIN

Owner's Manual

GPSMAP® 3005C

color chartplotter

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March 2006 Part Number 190-00531-00 Rev. B Printed in Taiwan

Introduction

Thank you for choosing the Garmin® GPSMAP® 3005C. The GPSMAP 3005C uses the proven performance of Garmin GPS and full-featured mapping to create an unsurpassed marine Multi-Function Display (MFD). Take a moment now to compare the contents of this package with the packing list on the outside of the box. If any pieces are missing, contact your Garmin dealer immediately.

Installing Your GPSMAP 3005C

To install the GPSMAP 3005C, refer to the *GPSMAP 3005C & GPS 17 Installation Instructions*. To complete the installation, you need the appropriate fasteners, tools, and mounts listed in each section. Installation items not provided by Garmin should be available at most marine dealers. If you experience difficulty installing the unit, contact Garmin Product Support or an installation professional in your area.

About This Manual

To get the most out of your new navigation system, read this manual and learn the operating procedures for your unit in detail. This manual is organized into the following sections:

The **Introduction** contains the Table of Contents, Product Registration, and the Software License Agreement.

The **Getting Started** section provides a unit overview and information that teaches you a basic working knowledge necessary to use the GPSMAP 3005C.

The **Basic Operation** section provides you with details and step-by-step instructions for creating and using waypoints, navigating a route, and using the **FIND** key.

The **Main Pages** section provides detailed explanations about each page in the GPSMAP 3005C and step-by-step directions on using the pages.

The **Main Menu** section provides detailed explanations about the Main Menu and how to use it to configure your unit.

If you have either a Garmin GSD 20, GSD 21 (Serial), or GSD 22 (Ethernet) sounder connected to your GPSMAP 3005C, see the **Using Sonar** section.

If you have a GDL30/GDL30A Marine Weather Satellite Receiver connected to your GPSMAP 3005C, see the **XM WX Weather** section.

The **Appendix** contains specifications, regulatory information, unit care information, optional accessories, and maintenance information. You can also find warranty and FCC information in the Appendix.

An **Index** is provided at the end of the manual for reference.

Manual Conventions

This manual uses the term **Warning** to indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

This manual uses the term **Caution** to indicate a potentially hazardous situation, which, if not avoided, may result in minor injury or property damage. It may also be used without the symbol to alert you to avoid unsafe practices.

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Product Registration

Help us better support you by completing our online registration today! Have the serial number of your GPSMAP 3005C handy, and connect to our Web site at http://www.garmin.com. Click the Product Registration link.

Use this area to record the serial number (8-digit number located on the back of the box) in case your GPSMAP 3005C is lost, stolen, or needs service. Be sure to keep your original sales receipt in a safe place, or attach a photocopy inside the manual.

Serial Number: ___ ___ ___ ___ ___ ___ ___ ___

Contact Garmin

If you encounter problems while using your GPSMAP 3005C, or if you have any questions, in the U.S.A. contact Garmin Product Support by phone: 913/397.8200 or 800/800.1020, Monday–Friday, 8 AM–5 PM Central Time; or go to http://www.garmin.com/support/, and click **Product Support**.

In Europe, contact Garmin (Europe) Ltd. at 44/0870.8501241.

Software License Agreement

BY USING THE GPSMAP 3005C, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

Garmin grants you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin.

You acknowledge that the Software is the property of Garmin and is protected under the United States of America copyright laws and international copyright treaties. You further acknowledge that the structure, organization, and code of the Software are valuable trade secrets of Garmin and that the Software in source code form remains a valuable trade secret of Garmin. You agree not to decompile, disassemble, modify, reverse assemble, reverse engineer, or reduce to human readable form the Software or any part thereof or create any derivative works based on the Software. You agree not to export or re-export the Software to any country in violation of the export control laws of the United States of America.

Warning

Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

When navigating, carefully compare information displayed on the GPSMAP 3005C to all available navigation sources, including information from visual sightings, and maps. For safety, always resolve any discrepancies or questions before continuing navigation.

Use the electronic chart in the GPSMAP 3005C only to facilitate, not to replace, the use of authorized government charts. Official government charts and notices to mariners contain all information needed to navigate safely.

Use terrain and obstacle data only as an aid to situational awareness.

WARNING: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our Web site at http://www.garmin.com/prop65.

Caution

Failure to avoid the following potentially hazardous situations may result in injury or property damage.

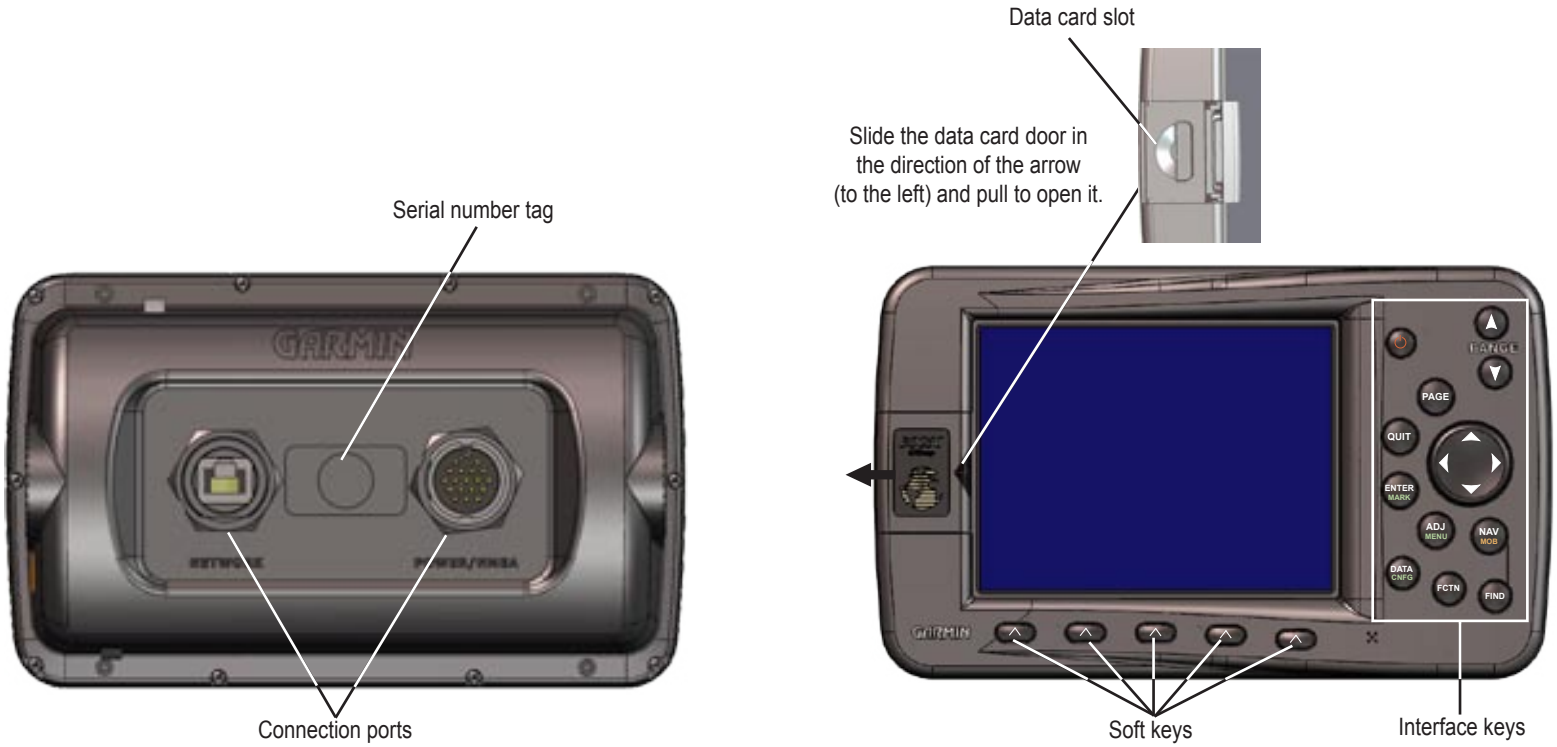
Use the GPSMAP 3005C only as a navigational aid. Do not attempt to use the GPSMAP 3005C for any purpose requiring precise measurement of direction, distance, location, or topography.

The Global Positioning System (GPS) is operated by the United States government, which is solely responsible for its accuracy and maintenance. The government's system is subject to changes which could affect the accuracy and performance of all GPS equipment, including the GPSMAP 3005C. Although the GPSMAP 3005C is a precision navigation device, any navigation device can be misused or misinterpreted and, therefore, become unsafe.

Map Data Information: One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify in product literature and copyright messages displayed to the consumer. Virtually all data sources contain inaccurate or incomplete data to some extent. In some countries, complete and accurate map information is either not available or is prohibitively expensive.

Getting Started

Unit Overview



Using the GPSMAP 3005C Keypad

POWER Key

- Press and hold to turn the unit on or off.
- Press and release to adjust backlighting.

PAGE Key

- Press to cycle through the main pages in sequence.
- Press to end an operation in progress and return to the main page.

QUIT Key

- Press to cancel data entry or exit a page.

ENTER/MARK Key

- Press and release to enter highlighted items and data or confirm on-screen messages.
- Press and hold to mark your current location as a waypoint.

DATA/CNFG Key

- Press to show or hide function windows and data fields on a main page.
- Press and hold to open the Configuration window.

RANGE Keys

- Press to zoom in or out on the map.

ROCKER Key

- Press up, down, right, or left to move through lists, highlight fields, on-screen buttons and icons, enter data, or move the map pointer.

ADJ/MENU Key

- Press and release to view options for a page.
- Press and hold to open the Main Menu.

NAV/MOB Key

- Press to open the Navigation menu.
- Press and hold to mark and create a track back to the marked location.

FIND Key

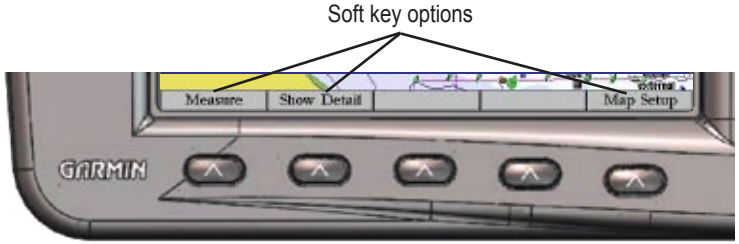
- Press to search for points such as user waypoints, cities, and services.

FCTN Key

- Press to cycle through function windows.

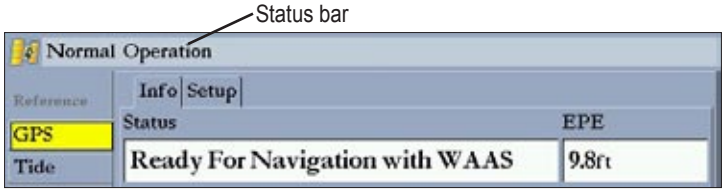
Using Soft Keys

Soft keys are located along the bottom of the screen and are used as shortcuts to select the most commonly used options for the selected page, window, or tab. To select a soft key, press the key directly below it.



Status Bar

At the top of each page, the status bar provides current status information for connected devices and several of the MFD functions. As additional devices are added to the MFD or Garmin Marine Network, an icon for each device appears on the status bar.



Alarm alerts also appear on the status bar. To acknowledge an alarm, press **QUIT.** If an alarm condition persists, it appears on the status bar until the alarm condition no longer exists.

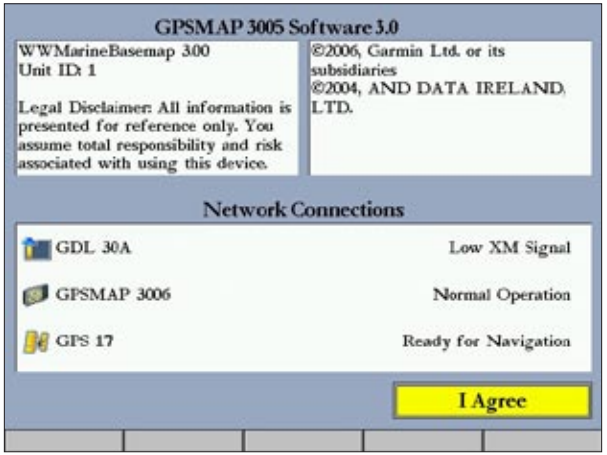
Turning on the GPSMAP 3005C

Before you turn on the GPSMAP 3005C, make sure the unit and GPS 17 antenna are correctly installed on your vessel according to the instructions in the *GPSMAP 3005C & GPS 17 Installation Instructions*.

The first time you turn on the GPSMAP 3005C, the GPS 17 receiver must collect satellite data and determine its current location. To ensure proper initialization, the GPSMAP 3005C is shipped from the factory in AutoLocate mode.

To turn on the GPSMAP 3005C:

1. Press and hold the **POWER** key until the unit turns on.
2. When **I Agree** is highlighted on the Warning Page, press **ENTER** to open the Map Page.


GPSMAP 3005 Software 3.0
WWMarineBasemap 300
Unit ID: 1
Legal Disclaimer: All information is presented for reference only. You assume total responsibility and risk associated with using this device.
©2006, Garmin Ltd. or its subsidiaries
©2004, AND DATA IRELAND, LTD.
Network Connections
GDL 30A
Low XM Signal
GPSMAP 3006
Normal Operation
GPS 17
Ready for Navigation
I Agree

To turn off the GPSMAP 3005C:

Press and hold the **POWER** key until the unit turns off.

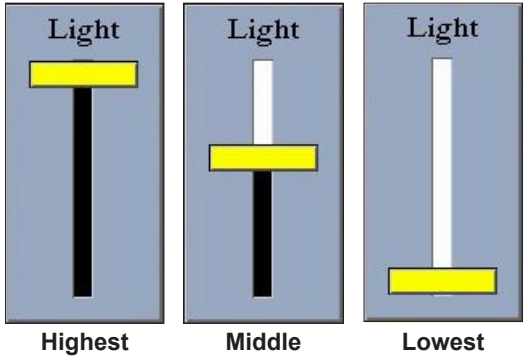
Adjusting the Backlight

You can adjust the screen backlighting on the GPSMAP 3005C from any page by using the **POWER/BACKLIGHT** key.

To adjust the backlight level:

1. Press and release the **POWER/BACKLIGHT** key.
2. Press up on the **ROCKER** to increase the brightness, or press down to decrease.

TIP: After you open the Backlight adjustment window, press the **POWER/BACKLIGHT** key repeatedly to cycle through the three backlight settings: Highest, Middle, and Lowest.



3. Press **ENTER** or **QUIT** to close the Backlight adjustment window.

Initializing the GPS Receiver

When you turn on the GPSMAP 3005C, a Warning Page appears, showing unit information, network connections (attached devices), and important information regarding the proper use of the unit. It takes a few seconds for the unit to search for attached devices. When the search is complete, the **I Agree** button is highlighted. After reading the warning, press **ENTER**.

Next, you see the first of the main pages, the Map Page. The GPSMAP 3005C begins searching for GPS satellites. The first time the unit acquires satellites takes several minutes. Afterward, acquisition times are quicker during normal use. The GPS status icon on the left side of the status bar shows the progress of the satellite acquisition process.

GPS icon status colors are:

- **Red**—acquiring satellites/lost satellite reception.
- **Orange**—ready for navigation/ready for navigation with WAAS.
- **Gray**—lost GPS connection. (Check GPS antenna wiring connections.)

A detailed visual reference of the satellite acquisition, GPS receiver status, and accuracy is available on the **GPS** tab on the Main Menu.

To view the GPS tab information:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Use the **ROCKER** to highlight the **GPS** tab.

When viewing the GPS Info sub tab, a signal strength bar for each satellite in view appears on the right of the page, with the appropriate satellite number underneath each bar. The numbers below each bar represent the particular satellite that is being received. Numbers above 33 indicate WAAS satellites. For more information about WAAS, see the "Appendix."

The sky view shows a birds-eye view of the location of each satellite relative to the receiver's last known location. The outer circle represents the horizon (north up), the inner circle 45º above the horizon, and the center point a location directly overhead. You can also set the sky view to Track Up, which causes the top of the sky view to align along your current track heading.

GPS Tab

The progress of satellite acquisition is shown in three stages:

- **No signal strength bars**—the receiver is looking for the satellites indicated.
- **Hollow signal strength bars**—the receiver has found the indicated satellite(s) and is collecting data.
- **Solid green signal strength bars**—the receiver has collected the necessary data and the satellite(s) are ready for use.

Receiver Status and Accuracy

The receiver status is shown in the Status field on the Info sub tab. Current accuracy is shown in the EPE (Estimated Position Error) field. Accuracy uses many factors to calculate location accuracy in feet or meters including the number of received GPS satellites, signal strength, and satellite orientation. The Status field shows one of the following conditions:

- **Searching for Satellites**—the receiver is looking for any satellites and collecting data from satellites visible at its last known or initialized location, but has not collected enough data to calculate a fix. This process can take up to five minutes.
- **Ready For Navigation**—at least three satellites with good geometry have been acquired, and your location is now being calculated in latitude and longitude; or at least four satellites have been acquired, and your location is being calculated in latitude, longitude, and elevation. "Ready For Navigation with WAAS" appears when you are receiving WAAS satellite corrections in 2-D or 3-D, and a D appears on the strength bar of satellites being corrected.

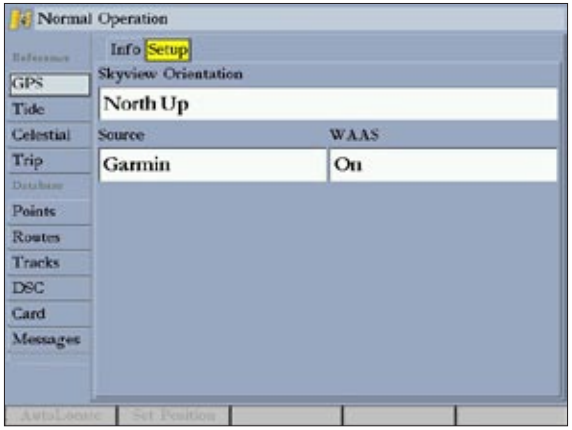
After the receiver has collected information from at least three satellites, the **Status** field shows either "Ready for Navigation" or "Ready for Navigation with WAAS." The GPSMAP 3005C is now ready for use. Press **QUIT** to return to the Map Page.

GPS Setup

The **Setup** sub tab provides access to functions and features relating to initializing the GPS receiver.

To access the GPS Setup sub tab:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Highlight the **GPS** tab, and then highlight the **Setup** sub tab.



Setup Sub Tab

The GPS Setup tab contains the following options:

Skyview Orientation—allows you to select a sky view orientation, either **North Up** or **Track Up**, for the GPS Info sub tab only.

Source—set to **Garmin** when using a Garmin sensor (GPS 17); set to **NMEA** when using any other GPS NMEA source.

WAAS—turns WAAS on or off. See page 86 for more information.

The following soft keys are active only when the unit is not receiving satellites and the Source is not set to **Garmin**:

- **AutoLocate**—allows the receiver to find your location automatically. This process can take up to five minutes.
- **Set Position**—allows you to initialize the receiver from the Map Page to initially help the receiver acquire satellites more quickly.

Using Simulator Mode

Simulator Mode is great for practicing with the unit if you are indoors where satellite signals are not available. When the GPSMAP 3005C is in Simulator Mode, the GPS receiver is turned off. The unit cannot be used for actual navigation.

NOTE: Do not try to navigate in Simulator Mode. While in Simulator Mode, the GPS receiver is turned off. Any satellite signal strength indicators shown are only simulations and do not indicate the strength of actual satellite signals.

To turn on Simulator Mode:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Press up or down on the **ROCKER** to highlight the **System** tab.
3. Press right on the **ROCKER** to highlight the **General** sub tab.
4. Highlight the **System Mode** field, and press **ENTER**.
5. Highlight **Simulator**, and press **ENTER**.

When Simulator Mode is active, the message "Simulating Operation" appears in the status bar at the top of each page.

To set up Simulator Mode:

Highlight the **Setup** button, and press **ENTER**. The Simulator Setup window appears. The following options are available:

- **Current Time/Date**—enter a simulated date and time.
- **Speed**—enter a simulated speed.
- **Track Control**—select track control. **Auto Track** steers to the current navigation point; **User Track** allows you to enter a heading in the **Track** field.
- **Track**—enter a simulated heading.

Use the **Set Position** soft key to set your location while in Simulator Mode.

You can also control the speed and track from the Compass or Highway Page. Press up or down on the **ROCKER** to increase or decrease the speed; press left or right to change the heading.

To turn off Simulator Mode:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Press up or down on the **ROCKER** to highlight the **System** tab.
3. Press right on the **ROCKER** to highlight the **General** sub tab.
4. Highlight the **System Mode** field, and press **ENTER**.
5. Highlight **Normal**, and press **ENTER**.

When Normal Mode is active, the message "Normal" appears in the status bar at the top of each page.

Basic Operation

Using the GPSMAP 3005C

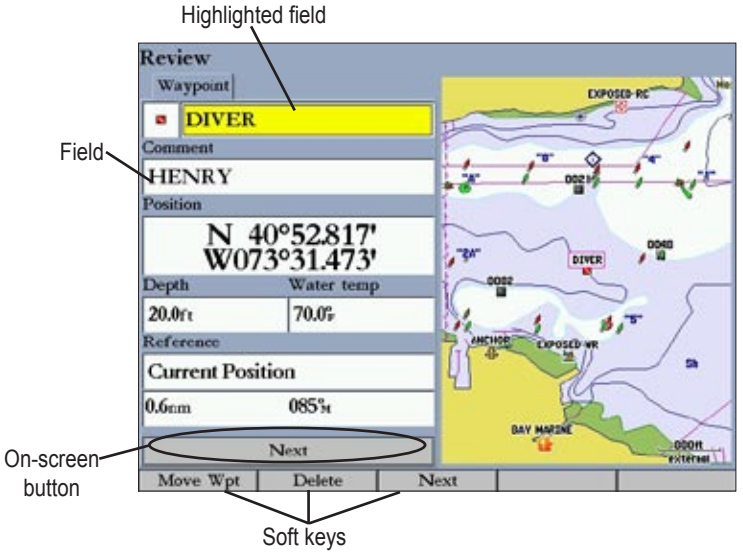
This section explains how to enter and select information with the GPSMAP 3005C.

Understanding the Features

The advanced keypad system on the GPSMAP 3005C is designed to allow qyou to select options and enter data quickly and conveniently. As you progress through this owner's manual, you are directed to press a specific key or highlight a field on the screen. When you are directed to press a key, you should press and quickly release the key. If you need to hold down the key for a period of time to activate a secondary function, the instructions tell you to do so. The location of the highlight is controlled by the **ROCKER**. When a field is selected on the screen, it is highlighted in yellow.

The following terms are used throughout this manual:

- **Highlight**—move the highlighted area on the screen up, down, left, or right with the **ROCKER** to select individual fields. Moving the highlight to a given location allows you to make a selection, begin data entry, or scroll through a list.
- **Field**—the location on a page where data or an option can be entered and displayed. Highlight a field using the **ROCKER** to begin entering data or selecting options.
- **Soft keys**—located along the bottom of the screen, soft keys are used as shortcuts to select the most commonly used options for the selected page, window, or tab. To select a soft key, press the key directly below it.
- **On-Screen button**—use the **ROCKER** to highlight an on-screen button, and press **ENTER** to select the button.



- **Scroll bar**—When viewing a list of items too long to show on the screen, a scroll bar appears along the right side of the list. To scroll through a list, press up or down on the **ROCKER**. Press right or left on the **ROCKER** to scroll one page at a time.
- **Default**—the factory setting saved in the unit's memory. You can change the settings, but you can also revert to the factory (default) settings when you press the **Factory Dflts** soft key on the System–General sub tab.

Selecting Options and Entering Data

To select options and enter data, use the **ROCKER** to highlight or select an item in a list or a field on the screen. Use the **ENTER** key, soft keys, and the **ROCKER** to select options, enter names and numbers in data fields, and activate your selections.

To select an optional feature:

1. From any page, press **ADJ**. The adjustment menu shows a list of optional features specific to that page.

2. Use the **ROCKER** to move the highlight up, down, left, or right to the selection you want, and press **ENTER** to select the option.
   OR
   Press the soft key below the option you want to select.

To select an on-screen button:

On a page with on-screen buttons, use the **ROCKER** to highlight an on-screen button, and press **ENTER**.

To select an option using soft keys:

Press the button below the soft key you want to select.

To exit a menu or return to the previous setting:

Press **QUIT**. The **QUIT** key moves backward through your steps. Press **QUIT** repeatedly to return to the starting page.

To enter data in a data field:

1. Use the **ROCKER** to highlight the data field, and press **ENTER** to edit it.
2. Press up or down on the **ROCKER** to select characters. Press and release the **ROCKER** to move character by character through the list; press and hold the **ROCKER** to move rapidly through the list.
3. Press right on the **ROCKER** to move to the next character on the line or press left to move back to the previous character. Press left on the **ROCKER** from the first character position to clear the field. If there are more than two lines of data, keep pressing right on the **ROCKER** to go to the next line.
4. Press **ENTER** to accept data and move to the next field.

Not all data fields are programmable. When moving about a page with these fields, the highlight skips them.

Using Additional Map Data

The GPSMAP 3005C comes standard with a built-in basemap showing cities, interestates, coastline detail, and U.S. Tide Stations. Optional preprogrammed Garmin data cards and MapSource CD-ROMs enhance the versatility of your GPSMAP 3005C. With optional BlueChart cartography, you can access marine navaids, wrecks, obstructions, anchorage locations, shaded depth contours, interidal zones, spot soundings, port plans, and more.

The GPSMAP 3005C supports Garmin's new BlueChart® g2™ technology. This cartography features integrated mapping, 2-D or 3-D map perspective, tide and current data, improved IALA symbols, navaids, marinas, boat ramps, roads, and more. You can also access additional data including highly detailed coastal roads and points of interest such as restaurants, lodging, and local attractions. Full-color aerial photographs of ports, marinas, bridges, and navigational landmarks are also included on many preprogrammed BlueChart g2 data cards.

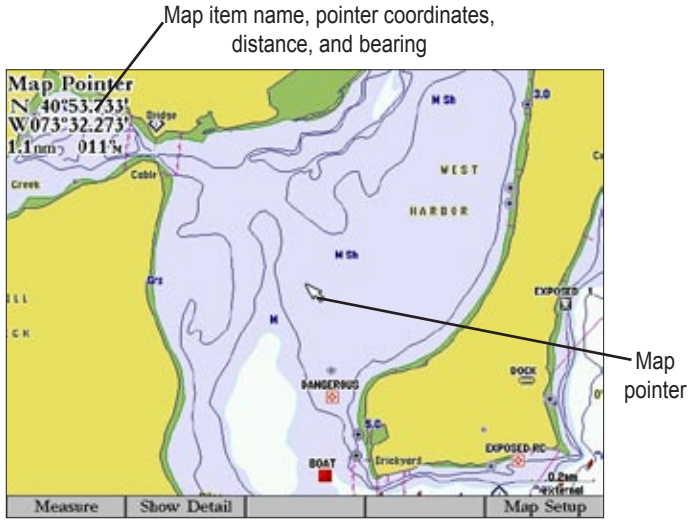
NOTE: Preprogrammed BlueChart g2 data cards are compatable only with software version 3.0 or later.

See your Garmin dealer or visit the Garmin Web site (www.garmin.com) for more information on available pre-programmed Garmin data cards and other MapSource programs.

Using the Map Pointer

Use the map pointer to pan away from your current location and scroll to other map areas around the world (even outside of your current detail coverage). As you pan past the edge of the current map display, the screen actively scrolls forward to provide continuous map coverage. An hourglass symbol appears by the pointer while the unit is busy drawing new map detail.

Controlled by the **ROCKER**, the map pointer is an important tool that can be used to pan to other map locations, mark and edit waypoints and routes, and review location data of on-screen map items and waypoints.



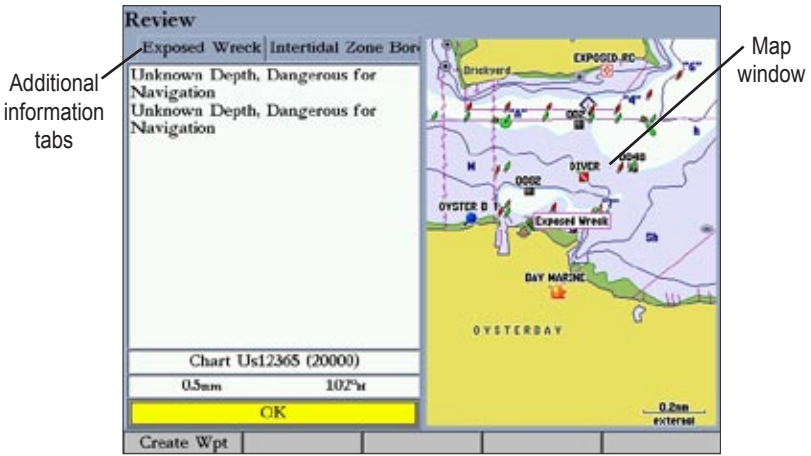
To move the map pointer:

Press the **ROCKER** to move the map pointer up, down, left, right, or diagonally.

As you move the map pointer, the distance and bearing from your current location to the map pointer are shown in the upper-left corner of the map, with the map pointer's location coordinates. Keep in mind that when the map pointer is stationary, the distance and bearing from your present location changes as your boat moves. The map pointer can also be used to snap to on-screen waypoints and map items, allowing you to review a selected location directly from the map.

To select an on-screen waypoint or map item with the map pointer:

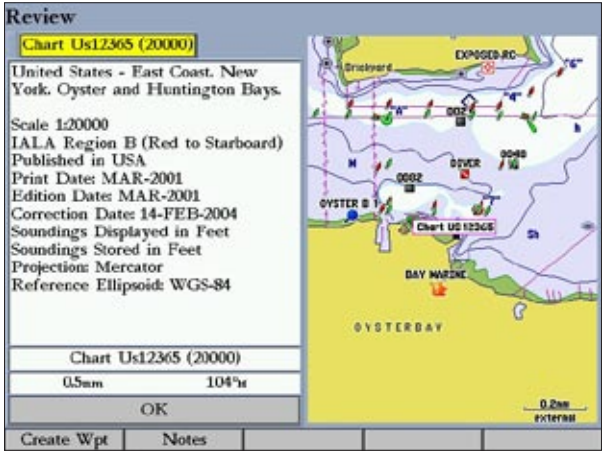
1. Use the **ROCKER** to move the pointer to the waypoint or map item. When a waypoint or map item is selected, it is highlighted on-screen with the name and location shown.
2. Press **ENTER** to view details of the map item. When using BlueChart or MapSource data, or if waypoints are grouped tightly together due to the Range setting, additional tabs appear on the Review Waypoint Page. Use the **ROCKER** to highlight the individual tabs to view the information and additional options.



To eliminate the pointer and re-center your location on the map:
Press **QUIT**.

To view additional BlueChart chart notes:

1. Select an on-screen BlueChart map item, and press **ENTER**.
2. Use the **ROCKER** to highlight the **Chart <name>** tab. A chart summary appears below the tab.
3. Press the **Notes** soft key. Notes for the chart appear.



BlueChart Notes

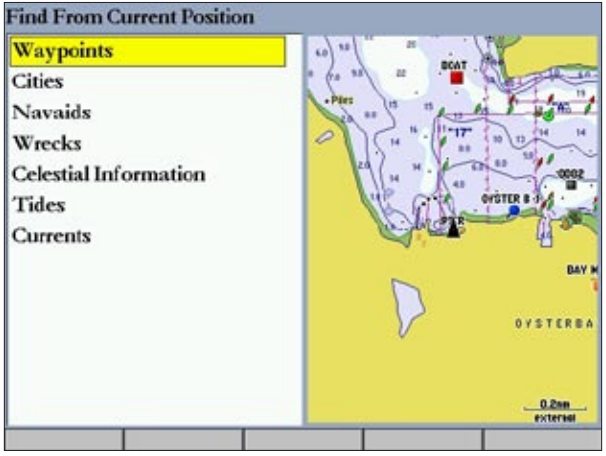
4. Highlight the notes field, and press **ENTER** to scroll the text up or down using the **ROCKER**.
5. Press **QUIT** to exit.

Finding an Item

Press **FIND** to search for items near your current location, including waypoints, anchorages, cities, marine services, navaids, restricted areas, wrecks, celestial information, tides, and currents. If you pan around on the map window and press **FIND**, the unit centers its search from the map pointer location. When using BlueChart, BlueChart g2, or MapSource data, your location or the map pointer must be within the map outline area to search for information from that area.

To find an item from your current location:

1. From any page, press **FIND** to open the Find From Current Position Page.



2. Highlight a category, and press **ENTER**. Select a subcategory, if necessary.
3. Some items have a **By Name** tab. For **By Name**, select the top field to spell out the name, or scroll through the list.

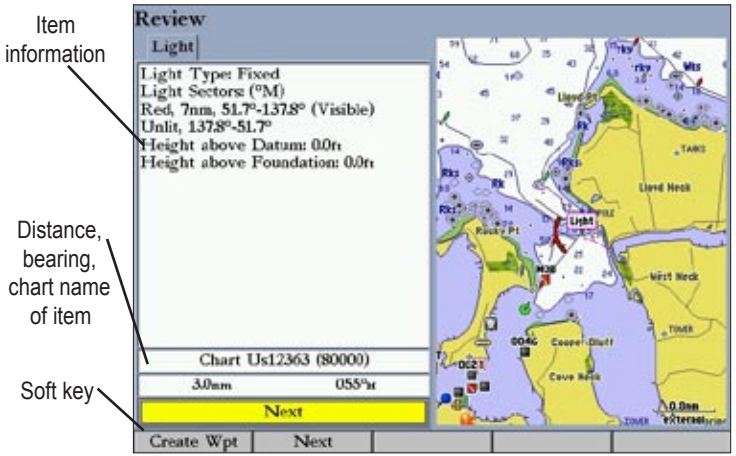
4. Some items have a **Filter List** button that allows you to enter letters or numbers of the item name. The search result shows only items matching the entered letters or numbers. Highlight the **Filter List** button, and press **ENTER**. Enter data, as needed, to narrow your search.

To find an item from another location on the map:

1. Open the Map Page. Use the **ROCKER** to pan to the location you want, and then press **FIND**. The Find From (Location) Page appears.
2. Using the **ROCKER**, highlight a category, and press **ENTER**.

To view details about an item:

Highlight an item in the search results list, and press **ENTER**. The Review Page appears, showing item information, map location, chart name, distance/bearing, and options for creating a waypoint or viewing the next item in the search results list.



Creating and Using Waypoints

The GPSMAP 3005C stores up to 4,000 alphanumeric waypoints, each with a user-defined icon, comment, depth, and water temperature.

NOTE: If you are using an optional Garmin GSD 20, GSD 21, or GSD 22 sounder module, the **Depth** and **Water Temp** fields fill in automatically.

You can create waypoints using three basic methods:

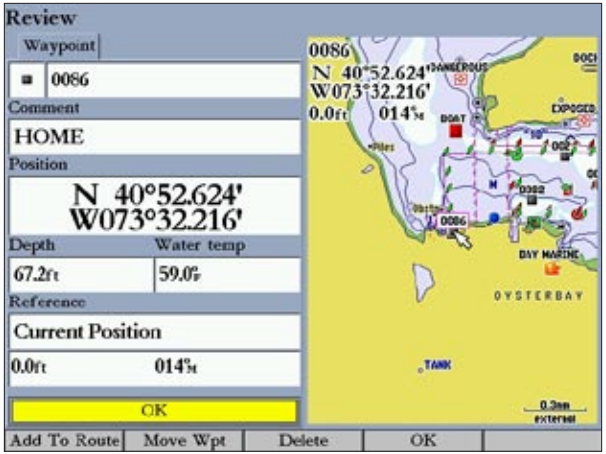
- **ENTER/MARK**—use the **ENTER/MARK** key to quickly mark your current location.
- **Graphically**—use the map display to define a new waypoint location.
- **Manually**—enter new waypoint coordinates manually.

Creating Waypoints Using the ENTER/MARK Key

Use the **ENTER/MARK** key to capture your current location (or pointer or map item location) to create a new waypoint. You must have a valid position fix to mark your current location.

To mark your current location:

1. Press and hold **ENTER/MARK** until the Review Waypoint Page appears. The GPSMAP 3005C captures its current location and creates a default name and symbol for the new waypoint.
2. To accept the waypoint with the default name and symbol, press **ENTER**. To change any of the available waypoint information, see page 15.



Review Waypoint Page

Creating Waypoints Using the Map

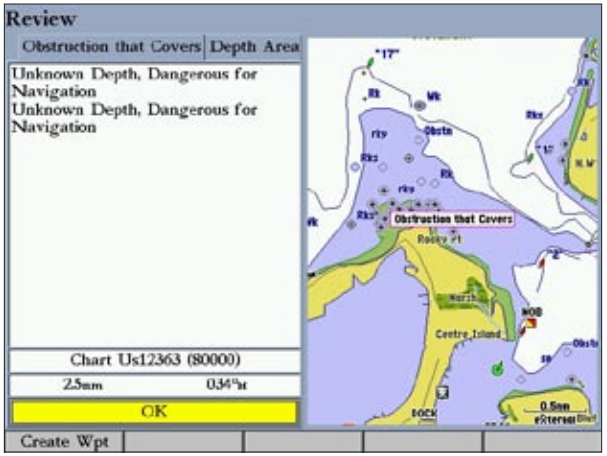
You can create a waypoint by using the map pointer to point to any map location or map feature. When you move the pointer over a map item, you see a highlighted description of the item.

To create a new waypoint using a map location:

1. Use the **ROCKER** to move the pointer to the map location you want.
2. Press and quickly release **ENTER/MARK** to capture the pointer location. Do not hold the button down; doing so marks your current location, not the map location. The Review Waypoint Page appears.
3. To accept the waypoint with the default information, press **ENTER**.
   OR
   To change any waypoint information, highlight the appropriate field and press **ENTER**. After entering your changes, press the **OK** soft key. For information on editing waypoints, see page 15.

To create a new waypoint from a map feature:

1. Use the **ROCKER** to move the map pointer and highlight the map feature you want.
2. Press **ENTER/MARK** to capture the pointer location. The Review Page for the selected map feature appears.
3. Press the **Create Wpt** soft key to open the Review Waypoint Page.
4. To accept the waypoint with the default information, press **ENTER.**
   OR
   To change any waypoint information, highlight the appropriate field and press **ENTER**. After entering your changes, press the **OK** soft key.



Waypoint Created from a Map Feature

Creating Waypoints Manually

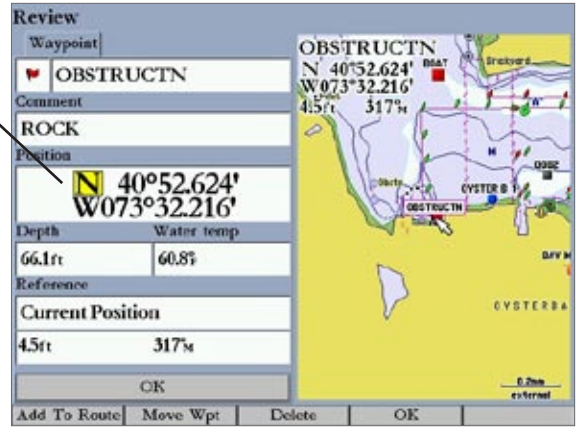
You can manually enter position coordinates to create a waypoint using the Points tab on the Main Menu. This method is useful for creating a waypoint at a specific latitude/longitude position from a chart or other source.

CAUTION: When entering a waypoint manually, be sure that the unit is set to the same position format and map datum as the paper chart or coordinates source. Entering coordinates into the GPSMAP 3005C while it is set to a datum different from the datum in which the coordinates were created can result in an incorrect waypoint location.

To create a new waypoint by entering position coordinates:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Highlight the **Points** tab. You can also mark your present location using the steps on page 13, and then proceed to step 4.
3. Press the **New Waypoint** soft key. The Review Waypoint Page appears with the next available waypoint number and the receiver's last known location as the default name and location.
4. Use the **ROCKER** to highlight the **Position** field, and press **ENTER**.
5. Enter position coordinates using the **ROCKER**, and press **ENTER**.
6. To accept the waypoint with the default information, press the **OK** soft key
   OR
   To change any waypoint information, highlight the appropriate field and press **ENTER**. After entering your changes, press the **OK** soft key. For information on editing waypoints, see page 15.

You can enter location coordinates manually.



Review Waypoint Page

Two other options are available on the Review Waypoint Page:

- **Add to Route**—adds the new waypoint to the end of a route.
- **Move Wpt** (waypoint)—moves or projects the waypoint to a new location on the map display.

To add a new waypoint to a route:

1. Press the **Add To Route** soft key. The Select Route Page appears.
2. Highlight a route or **New Route**, and press **ENTER**.
3. Highlight **OK**, and press **ENTER** to add the waypoint to the route.

Reviewing and Editing Waypoints

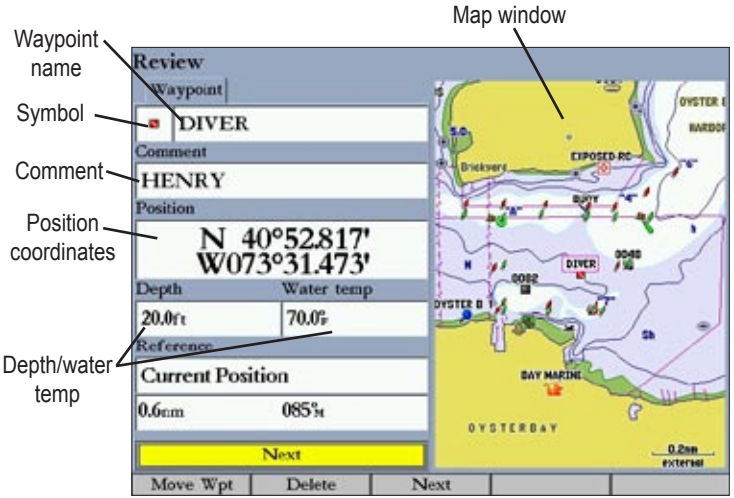
After you create a waypoint, you can modify, review, rename, move, or delete it using the Review Waypoint Page. This page shows waypoint details, and a map window that you can pan or zoom in and out.

To access the Review Waypoint Page:

Use the **ROCKER** to highlight a waypoint on the Map Page, and press **ENTER**.

To access the Review Waypoint Page from a waypoint list:

1. Press and hold **ADJ/MENU** to open the Main Menu. Use the **ROCKER** to highlight the **Points** tab, and then highlight a waypoint from the list on the **User** or **Proximity** sub tab.
2. Press **ENTER** to open the Review Waypoint Page. Additional information tabs do not appear in this mode.



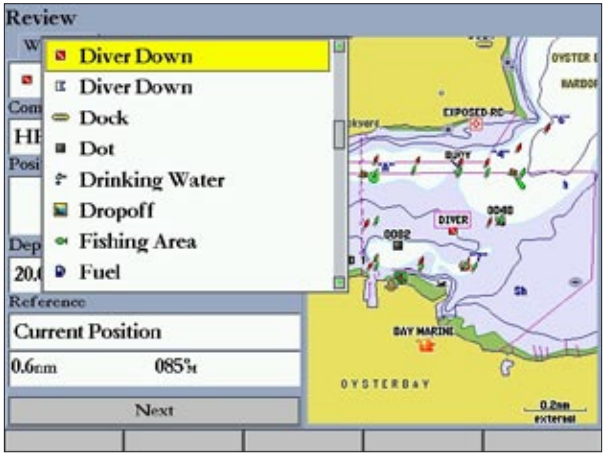
Review Waypoint Page

To change the waypoint name:

1. Highlight the waypoint name field, and press **ENTER**.
2. Use the **ROCKER** to enter a new name, and press **ENTER**.

To change the waypoint symbol:

1. Highlight the waypoint symbol field to the left of the waypoint name, and press **ENTER**.
2. Use the **ROCKER** to select a different symbol, and press **ENTER**.



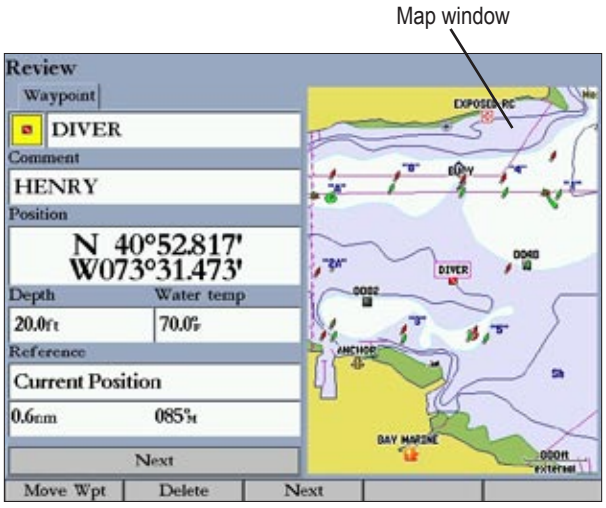
Waypoint Symbol List

To change the Comment, Position, Depth, or Water temp:

1. Highlight the **Comment**, **Position**, **Depth**, or **Water temp** field, and press **ENTER**.
2. Use the **ROCKER** to enter new data, and press **ENTER**.

To access the map window on the Review Waypoint Page:

1. Press **FCTN** to highlight the map window. You can pan the map, change the map range, or use the map pointer to select a location.



Review Waypoint Page

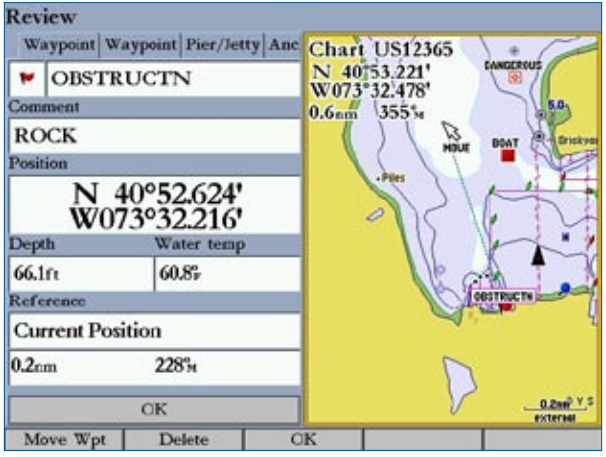
2. Press **FCTN** to return to the left side of the Review Waypoint Page.

Moving a Waypoint

You can modify a waypoint by moving or "projecting" the distance and bearing from its present location to a new location.

To move the waypoint on the map:

1. Press the **Move Wpt** soft key. The map window on the right side of the page is highlighted with the selected waypoint centered and highlighted on a map display. The word **MOVE** appears below the pointer.
2. Use the **ROCKER** to move the waypoint to the new location. The distance and bearing from the waypoint's current location appears in the upper-left corner of the map window.
3. Press **ENTER** to accept the new waypoint location.



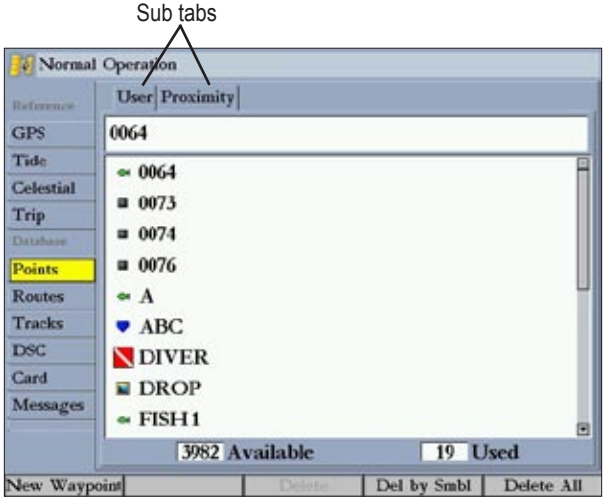
4. Press **FCTN** to return to the left side of the Review Waypoint Page.

Using Waypoint Lists

The Points tab on the Main Menu has two sub tabs, User and Proximity, which allow you to manage a large number of waypoints quickly and efficiently. The Proximity sub tab also provides a continuously updated proximity waypoint alarm that can be used to define an alarm circle around submerged hazards or shallow waters.

To access the Points tab from the Main Menu:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Use the **ROCKER** to highlight the **Points** tab, and highlight either the **User** or **Proximity** sub tab.



User Waypoints

The User sub tab on the Points tab shows a master list of all waypoints currently stored in memory. From the User sub tab, you can review, edit, rename, or delete individual waypoints, or delete all user waypoints. The number of available and used waypoints are shown at the bottom of the User sub tab. Stored waypoints are arranged in alphanumeric order.

To scroll through and review the waypoint list:

1. Use the **ROCKER** to highlight the **Points** tab on the Main Menu, and then highlight the **User** sub tab.
2. Press up or down on the **ROCKER** to scroll through the list of waypoints; press right or left on the **ROCKER** to scroll by page.
3. Press **ENTER** to review the highlighted waypoint on the Review Waypoint Page.
4. Press the **Next** soft key to return to the waypoint list. The next waypoint in the list is automatically highlighted.

Deleting Waypoints

The following soft keys are available when you highlight a waypoint on the User sub tab:

- **New Waypoint**—creates a new waypoint.
- **Delete**—deletes the selected waypoint from the list, and from any route in which the waypoint was used.
- **Del by Smbl**—deletes waypoints that use the same symbol.
- **Delete All**—deletes all waypoints from the unit.

NOTE: When you delete a waypoint from the list, it cannot be recovered from the unit. Save important waypoints to a data card, or write them down.

To delete a single waypoint from the User sub tab:

1. Use the **ROCKER** to highlight the waypoint you want to delete, and then press the **Delete Waypoint** soft key. A confirmation message appears.
2. Highlight **OK**, and press **ENTER** to delete the selected waypoint.

To delete waypoints by symbol:

1. On the **User** sub tab, highlight the waypoint you want to delete.
2. Press the **Delete By Symbol** soft key.

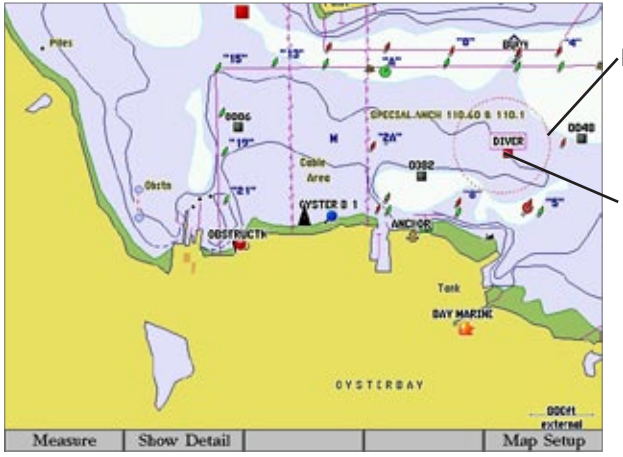
3. Use the **ROCKER** to highlight the symbol of the waypoints you want to delete, and press **ENTER**.
4. Highlight **OK**, and press **ENTER** to delete the waypoints by symbol. Otherwise, press the **Cancel** soft key to return to the User sub tab without deleting any waypoints.

To delete all user waypoints:

1. On the **User sub tab,** press the **Delete All** soft key.
2. Highlight **OK**, and press **ENTER** to delete all user waypoints.

Proximity Waypoints

Use the Proximity sub tab to define an alarm circle around a stored waypoint. The alarm circle can help you avoid reefs, rocks, or restricted waters. You can add proximity alarms to a maximum of 10 waypoints or on-screen map items, with a maximum alarm radius of 99.99 nautical or statute miles or kilometers.



If a proximity alarm circle overlaps an existing alarm circle, the message "Proximity Overlaps Another Proximity Waypoint" appears. Because the unit only alerts for one of the overlap points, use caution when navigating in these areas. If you enter a red proximity circle overlap, you are alerted only to the closest proximity waypoint.

To add a proximity waypoint:

1. Press the **New Alarm** soft key on the **Proximity** sub tab. The Find From Current Position Page appears.
2. Highlight a category, and press **ENTER**.
3. Use the **ROCKER** to highlight a waypoint or map item from the list, and press **ENTER**. The Review Page appears for the selected waypoint or map item within a red circle.
4. Press the **OK** soft key. The Proximity sub tab appears with the **Distance** highlighted.
5. Press **ENTER** and use the **ROCKER** to enter a proximity radius (up to 99.99 units).
6. Press **ENTER** when finished.

To turn proximity alarms on or off:

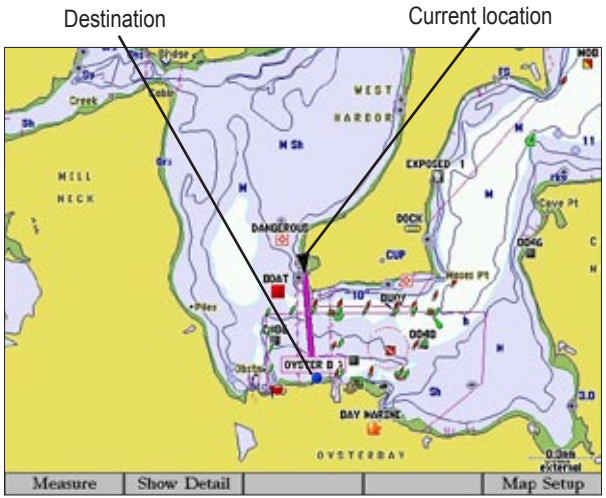
1. Use the **ROCKER** to highlight the field below **Proximity Alarm** on the **Proximity** sub tab**,** and press **ENTER**.
2. Select **ON** or **OFF**, and press **ENTER**.

To clear one or all proximity waypoints from the list:

1. Use the **ROCKER** to highlight the proximity waypoint you want to clear.
2. To clear a single alarm, press the **Delete** soft key.
   OR
   To clear all proximity waypoints, press the **Delete All** soft key. A confirmation message appears.
3. Press the **OK** soft key to delete the proximity waypoint. Otherwise, press the **Cancel** soft key, or press **QUIT** to cancel.

Navigating to a Destination

Using the **NAV** key, the GPSMAP 3005C provides four ways to navigate to a destination: Go To Point, Follow Track, TracBack, and Follow Route. When you are navigating, you see a straight line on the Map Page that always runs from your current location to the destination. The easiest method for selecting a destination is the Go To function, which allows you to select a destination point and then set a direct course to it from your present location. If you highlight a point on a list or the map and press **NAV**, **Go To <point name>** appears in addition to **Go To Point**. The Go To function can be accessed from any list of points or graphically from the map display.



Navigating to a Destination

To Go To a point:

1. Press **NAV**.
2. Highlight **Go To Point**, and press **ENTER**. The Find From Current Position Page opens.
3. Highlight **Waypoints**, and press **ENTER**. (You can also choose to go to other points from this list, such as cities or tide stations.)
4. Select a waypoint from the **By Name** or **Nearest** tab list, and press **ENTER** to open the Review Waypoint Page for the selected waypoint.
5. Press the **Go To** soft key to begin navigation. A magenta line appears on the map display showing the course from your current location to the Go To point.

To stop navigation:

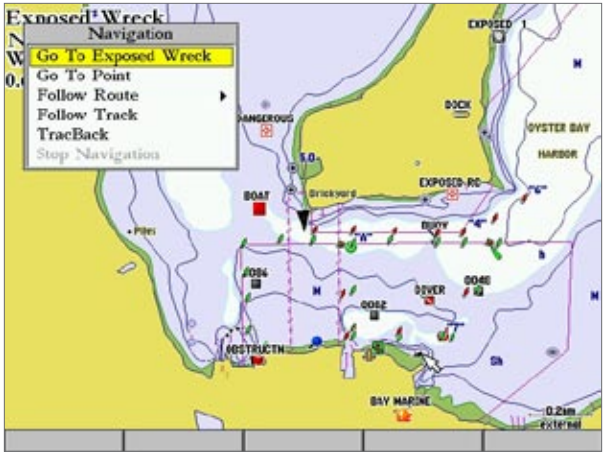
1. Press **NAV**.
2. Highlight **Stop Navigation**, and press **ENTER**.

Selecting a Map Item Go To Destination

A map item Go To can be used to select one of three items from the map display—an existing waypoint, on-screen map items such as rivers, cities, navaids, or a new map point. If you select a map item as the Go To destination, the GPSMAP 3005C automatically uses the name of the map item, but the point is not stored in the waypoint list. If you select a new map point (non-map item) as the Go To destination, the GPSMAP 3005C automatically creates a waypoint named **MAP** at the pointer location.

To Go To an existing waypoint or map item from the map display:

1. Use the **ROCKER** to highlight the waypoint or map item you want to navigate to on the Map Page, and press **NAV**.
2. On the Navigation menu, highlight **Go To <waypoint name>**, and press **ENTER**.



To Go To a new map point (non-map item) from the map display:

1. Use the **ROCKER** to move the pointer to the location you want to go to, and press **NAV**.
2. With **Go To MAP Point** highlighted, press **ENTER**.

To stop navigation:

1. Press **NAV**.
2. Highlight **Stop Navigation**, and press **ENTER**.

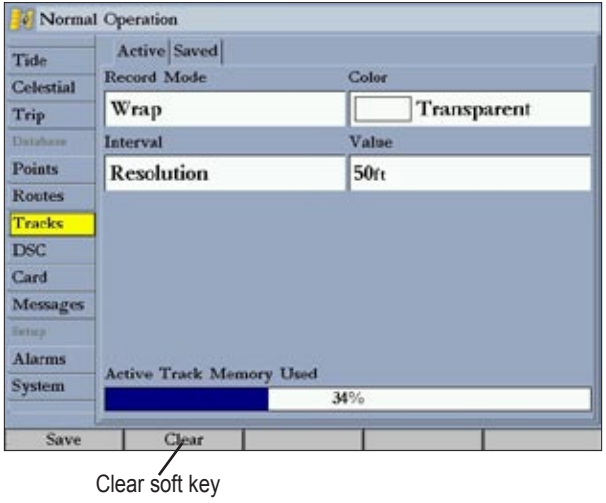
Follow Track and TracBack Navigation

A track is an electronic breadcrumb trail recording or history of your path. The track currently being recorded is the "active" track. An active track can be stored or saved in the unit. Both the Follow Track and TracBack options navigate in the same way. Follow Track uses stored or "saved" tracks; TracBack uses your current or "active" track.

TracBack allows you to retrace your path using the track log automatically stored in the receiver's memory, which eliminates the need to store waypoints along the way. TracBack routes are created by reducing your track log into a route and activating an inverted route. When active, a TracBack route leads you through your stored track log points, so it is a good idea to clear the existing track log before you start your current trip.

To clear the track log:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Using the **ROCKER**, highlight the **Tracks** tab, and then highlight the **Active** sub tab.
3. Press the **Clear** soft key. A confirmation message appears.
4. Press the **OK** soft key to clear the track log.



Saving a Track Log

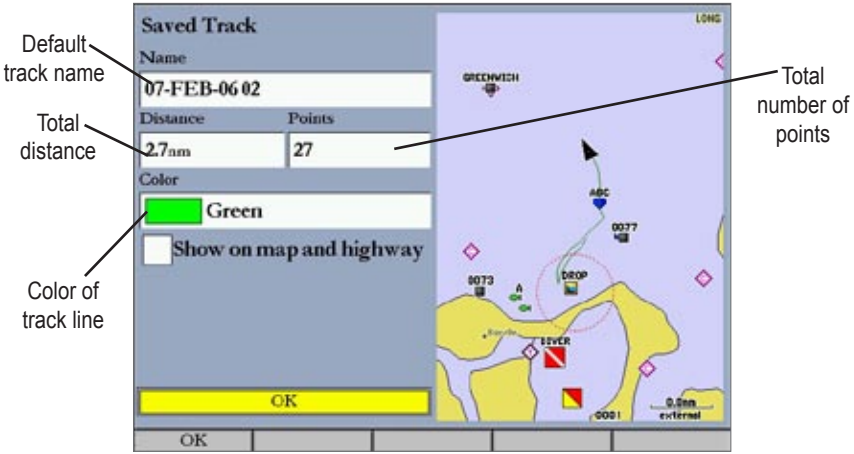
You must save a track log before you can use the Follow Track feature. You can store up to 15 track logs from certain times and dates.

To save a track log:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Use the **ROCKER** to highlight the **Tracks** tab, and then highlight the **Active** sub tab.
3. Press the **Save** soft key**,** and press **ENTER**. The Save Back Through window appears.
4. Highlight the time or date of the track you want to save, or highlight **Entire Log**, and press **ENTER**. The track begins saving, and then the Saved Track Page appears. The default name, distance, number of points (700 maximum), and a map overview are shown.
5. To change the name of the saved track, highlight the **Name** field and press **ENTER**, make any changes, and press **ENTER** again.
6. To specify the color used to show the saved track line on the map and highway, highlight the **Color** field and press **ENTER**, choose a color, and press **ENTER** again.
7. To show the track on the Map and Highway Pages, highlight the check box to the left of **Show on map and highway**, and press **ENTER**.
8. Press the **OK** soft key to save the track log.

To review and edit a track:

1. On the **Saved** sub tab, highlight a track and press **ENTER** to open the Saved Track Page.
2. Make any changes, and then press **QUIT**.



Initiating a Follow Track

You must save a track before using the Follow Track option. If there are no saved tracks, the message “There are no Saved Tracks to follow” appears.

To follow a track using the NAV key:

1. Press **NAV**, highlight **Follow Track**, and press **ENTER**. The Select Track Page appears.
2. Highlight the track you want to follow, and press **ENTER**.
3. To invert the Follow Track (navigate it in the reverse direction), press **NAV**, highlight **Invert Route**, and press **ENTER**.

To start a TracBack using the NAV key:

1. Press **NAV** to open the **Navigation** menu.
2. Highlight **TracBack**, and press **ENTER**. The TracBack Through window appears.
3. Highlight the time, date, or **Entire Log**, and press **ENTER**.

To stop TracBack navigation:

1. Press **NAV**.
2. Highlight **Stop Navigation**, and press **ENTER**.

TracBack Tips

When a TracBack is active, the GPSMAP 3005C takes the track log stored in memory and divides it into segments called legs. Up to 300 temporary turns (BEGIN, TURN 1, TURN 2,...., TURN X, END) are created to mark the most significant features of the track log to duplicate your exact path as closely as possible. To get the most out of the TracBack feature, remember the following tips:

- Always clear the track log at the starting point.
- The Record Mode option on the track log setup page must be set to **Fill** or **Wrap**.
- At least two track log points must be stored in memory to create a TracBack route.
- If the track log Interval field is set to **Time**, the route may not follow your exact path (keep the interval set to **Resolution** for best performance).
- If the receiver is turned off or satellite coverage is lost during your trip, TracBack draws a straight line between any point where coverage was lost and where it resumed.
- If your track log's changes in distance and direction are too complex, 300 waypoints might not mark your path accurately. The receiver then assigns the 300 waypoints to the most significant points of your track, and simplifies segments with fewer changes in direction.

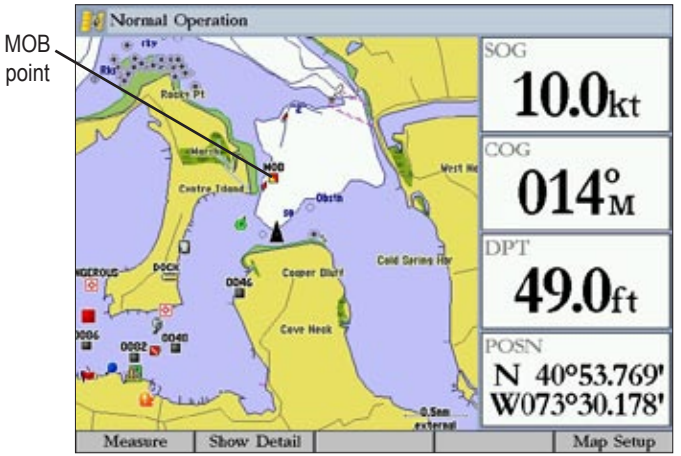
Man OverBoard (MOB)

Use the Man OverBoard function to simultaneously mark and set a course to a location for quick response to emergency situations.

To initiate the MOB function:

1. Press and hold the **NAV/MOB** key.
2. Press the **Yes** soft key to confirm and begin navigating to the MOB location.

When a MOB is initiated, a MOB waypoint with an international MOB symbol ( ) is created, and the unit is on an active navigation to that point. Use any of the navigation pages to guide you back to the MOB point. The MOB waypoint is stored in the waypoint list, and you can delete or edit it like any other waypoint.



To stop navigation to the MOB location:

1. Press **NAV/MOB**.
2. Highlight **Stop Navigation**, and press **ENTER**.

Creating and Using Routes

You can create and store up to 50 reversible routes (numbered 1–50), with up to 300 points each.

Creating a New Route

Using the Route tab on the Main Menu, you can create a new route in one of two ways. You can select waypoints or map items on the map window, allowing you to see each route point on the screen as you create the route, or you can select waypoints from the waypoint list, allowing you to see a list of the route points as you create the route.

To create a new route on the map:

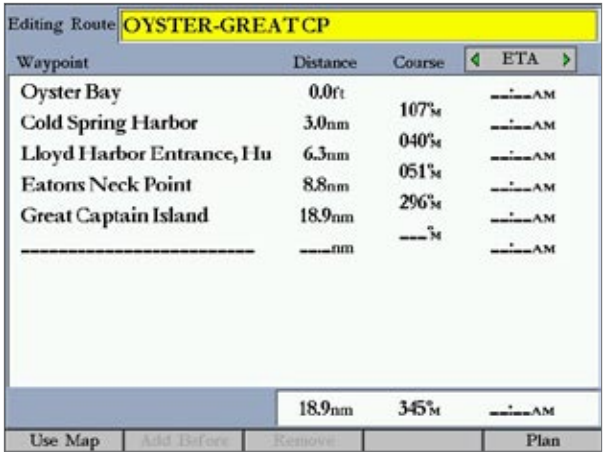
1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Use the **ROCKER** to highlight the **Routes** tab.
3. Press the **New Route** soft key. The Route map window appears, and the position marker (▲) changes to the map pointer (↖) with "ADD" underneath it.
4. Use the **ROCKER** to highlight the location you want to add to your route, and press **ENTER**. As you add each new waypoint to the route, the upper-left corner of the screen shows the waypoint name. The bottom of the screen shows you the number of available points. Repeat this step until you finish defining all route waypoints.

   If you select an area of the map that is not a feature or waypoint, a new waypoint is created for that location.

Number of available points

To create a new route textually using the Route list:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Use the **ROCKER** to highlight the **Routes** tab.
3. Press the **New Route** soft key to open the Route map window.
4. Press the **Use List** soft key to open the Route list.
5. Use the **ROCKER** to highlight the first field under the word "Waypoint," and press **ENTER**. The Find From Current Position Page appears.
6. Highlight **Waypoints**, and press **ENTER**. (You can also choose from other points, such as Cities or Navaids.)
7. Select a waypoint to add to the route, and press **ENTER**. The Review Waypoint Page appears.
8. Press the **OK** soft key to add the point to the route. As you add each new waypoint to the route, the Route list shows the waypoint or map item name, leg distance, course between points, and a selectable column to show other route information.



Route List with Information

9. Repeat steps 5–8 until all route points are entered. Press **QUIT** to return to the Route Page.

Navigating a Saved Route

After you create a route, press the **NAV** key to start the route and use it for navigation. You can follow a route in the same sequence as it was originally created, invert and follow the route from the end point back to the beginning point, or re-evaluate it.

To navigate a saved route:

1. From any page, press **NAV**, and then highlight **Follow Route** on the Navigation menu.
2. Press the **Pick Saved** soft key to select a saved route. The Select Route window opens.
3. Use the **ROCKER** to highlight the route you want to navigate, and press **ENTER**. The selected route is shown on the Map Page.

To stop navigating a route:

Press **NAV**, highlight **Stop Navigation** on the Navigation menu, and press **ENTER**.

The following options are available on the Navigation menu by pressing **NAV** while navigating a route:

- **Invert Route**—reverses the route so you can follow it from the end point back to the beginning.
- **Re-Evaluate Route**—recalculates and reactivates the current route data; and it selects the route leg closest to your current location as the active leg (the active leg defines the current from and to waypoints).

Creating a Quick NAV Route

Use the **Create QUICK** soft key to create a quick route that you can begin navigating imediately.

To create and navigate a QUICK NAV route:

1. Press **NAV/MOB**, and highlight **Follow Route**.
2. Press the **Create QUICK** soft key.
3. Use the map pointer to select a waypoint or map item, and press **ENTER**.

   As you add each new waypoint to the route, the data window at the top of the Map Page shows the waypoint/map item name, bearing and distance from your location, and coordinates of the map pointer. The bottom of the screen shows the number of available points. A route line appears on the map to indicate each completed leg, and a dotted line appears indicating the distance and bearing to the arrow pointer from the last route waypoint.
4. Repeat step 3 until you finish adding all route waypoints.
5. Press **QUIT** twice to start your QUICK NAV route.

Copying a Route

Use the **Copy** soft key on the Route tab to copy an existing route.

To copy a route:

1. Press and hold **ADJ/MENU** to open the Main Menu, and then highlight the **Routes** tab.
2. Use the **ROCKER** to select the route you want to copy, and press the **Copy** soft key. The map window for the new route opens. The copied route uses the same route name with an additional number (starting at 1) at the end of the route name.

Deleting a Route

Use the Route tab on the Main Menu to delete an individual route or delete all routes.

To delete an individual route:

1. Press and hold **ADJ/MENU** to open the Main Menu, and then highlight the **Routes** tab.
2. Use the **ROCKER** to select the route you want to delete, and then press the **Delete** soft key. A confirmation message appears.
3. Press the **OK** soft key to delete the route.

To delete all routes:

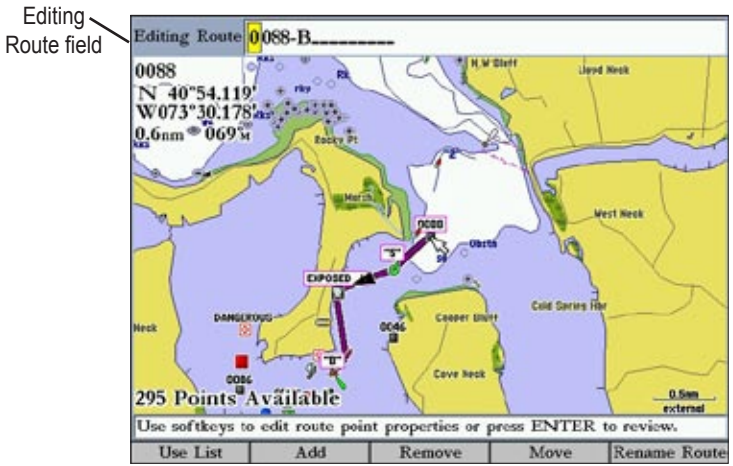
1. Press and hold **ADJ/MENU** to open the Main Menu, and then highlight the **Routes** tab.
2. Press the **Delete All** soft key. A confirmation message appears.
3. Press the **OK** soft key to delete all routes.

Editing a Route

After you create or copy a route, use the Route tab to add, edit, or delete points from a route or rename a route.

To change the name of a route:

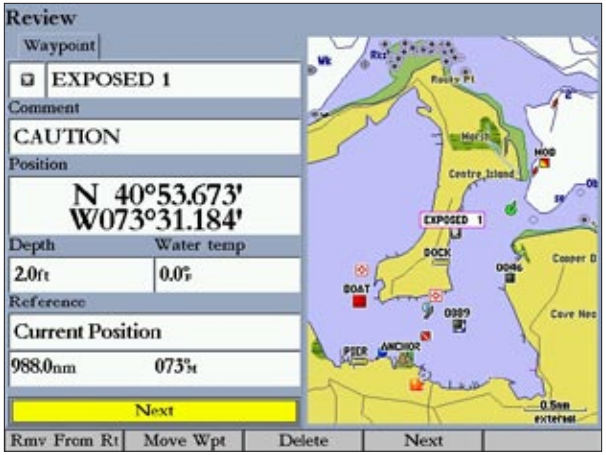
1. On the **Routes** tab, highlight the route you want to edit, and press **ENTER**. The map window opens showing the selected route.
2. Press the **Rename Route** soft key. The first character in the **Editing Route** field is highlighted.



3. Use the **ROCKER** to change the route name, and press **ENTER** when finished.

To review individual route points on the map:

1. On the **Routes** tab, highlight the route you want to edit, and press **ENTER**. The map window opens showing the selected route.
2. Highlight a point on the route, and press **ENTER** to open the Review Waypoint Page.

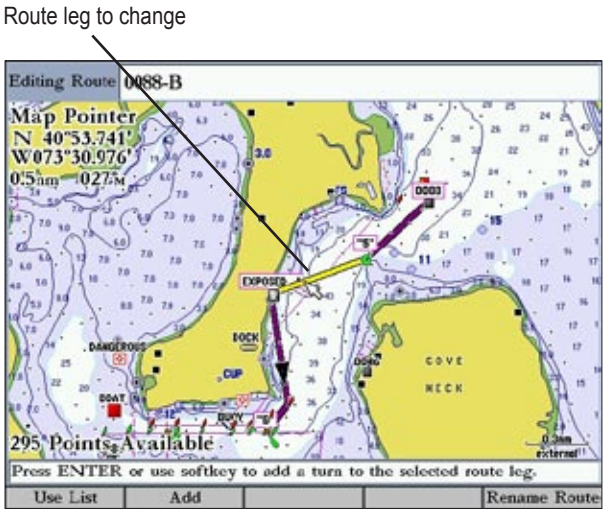


Review Waypoint Page

3. Press the **Rmv From Rt** soft key to remove the point from the route, press the **Move Wpt** soft key to move the waypoint, press the **Delete** soft key to permanently delete the waypoint from the unit, or press the **Next** soft key to highlight the next point on the route list. If the selected route point is a user waypoint, you can edit any of the waypoint properties on the Review Waypoint Page.

To add points to a route:

1. On the **Routes** tab, highlight the route you want to edit, and press **ENTER**. The map window opens, showing the selected route.
2. Move the map pointer to the leg of the route where you want to add the new point. The selected route leg turns yellow.



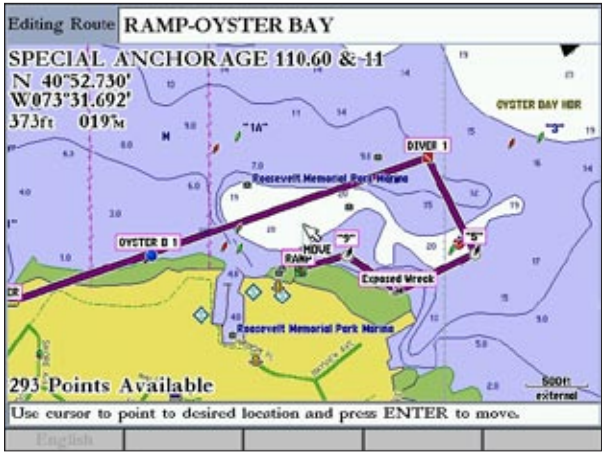
3. Press the **Add** soft key. The color of the selected route leg changes to magenta and the word “ADD” appears below the map pointer.
4. Use the **ROCKER** to drag the map pointer to the location where you want to add a route point.
5. Press **ENTER** to add the point to the route.

To remove a point from a route:

1. On the **Routes** tab, highlight the route you want to edit, and press **ENTER**. The map window opens showing the selected route.
2. Select the point you want to remove from the route, and press the **Remove** soft key.

To edit a route using the map window:

1. On the **Routes** tab, highlight the route you want to edit, and press **ENTER**. The map window opens showing the selected route.
2. Use the **ROCKER** to highlight a point to review (waypoint or map item).
3. Press the **Move** soft key to move the selected point. The word “MOVE” appears below the map pointer.



4. Use the **ROCKER** to drag the map pointer to the location where you want to move the route point, and then press **ENTER** to move the route point.

Planning Routes

You can enter information such as your speed, departure time, fuel flow, and departure date so your GPSMAP 3005C can estimate information about your trip.

To plan your route:

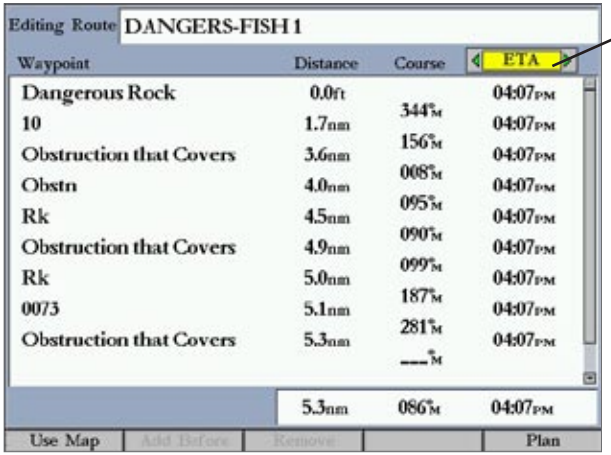
1. Press the **Plan** soft key on the Route list to open the Plan Route window.
2. Enter planning data for speed and fuel flow. You can also enter the date and time of your departure. As you enter planning information, the fields on the Route list are automatically calculated.

NOTE: Fuel flow rates are measured in units per hour. System setting changes for units of measure (statute, nautical, or metric) do not affect the fuel flow measure. You should enter fuel flow rates based on available information for your boat (operators manual, performance specifications) and note the units of measure (gallons, liters, and so on).

3. Press **QUIT** to return to the Route List.

To change the data column (Plan Route feature):

1. On the Route list, highlight the adjustment button to the right of the **Course** column header, and press **ENTER**. The middle title is highlighted.



Planning features

2. Press left or right on the **ROCKER** to select one of nine available planning features, including **ETA** (Estimated Time of Arrival at point), **Fuel** (to point), **Leg Dist**, **Leg Fuel**, **Leg Time**, **Sunrise**, **Sunset** (at point location), and **Time To** (point).

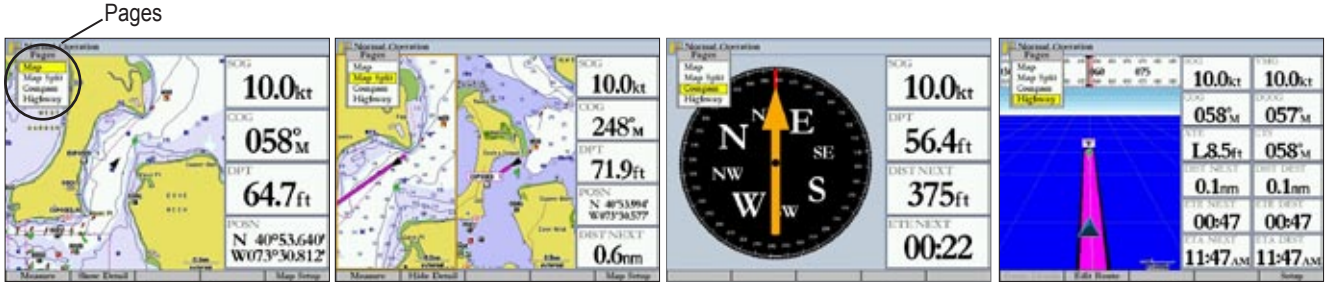
   The unit automatically recalculates each waypoint in the route based on the planning feature selected.

3. Press **ENTER** when you are finished.

Main Pages

The GPSMAP 3005C has four main pages that are always available: Map Page, Map Split Page, Compass Page, and Highway Page. Press **PAGE** to cycle through the main pages in order. If you have a GSD 20, GSD 21, or GSD 22 with transducer connected to the GPSMAP 3005C, the Sonar Page is added to the page sequence.

When the unit is turned on, the Map Page appears. As you add optional hardware to the GPSMAP 3005C or Garmin Marine Network, additional main pages, functions, or adjustments may appear automatically. For specific information about additional main page operations, refer to the documentation that comes with the optional hardware.



Map Page **Map Split Page** **Compass Page** **Highway Page**

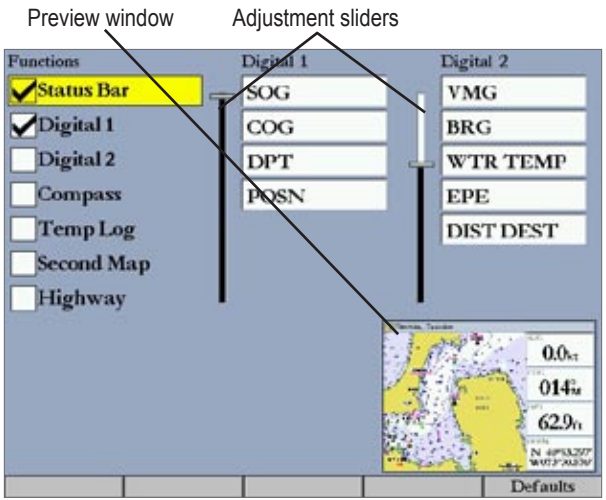
To go to a specific main page:

1. Press **PAGE**. The Pages menu shows the list of available main pages and their corresponding shortcut numbers. The active main page is highlighted.
2. Press up or down on the **ROCKER** to highlight a main page, and press **ENTER**.

Configuring Main Pages

You can customize each main page to fit your navigational needs, and you can modify digital data fields and add additional secondary functions to each of the main pages. As you add optional hardware to the GPSMAP 3005C or Garmin Marine Network, additional function choices might appear automatically.

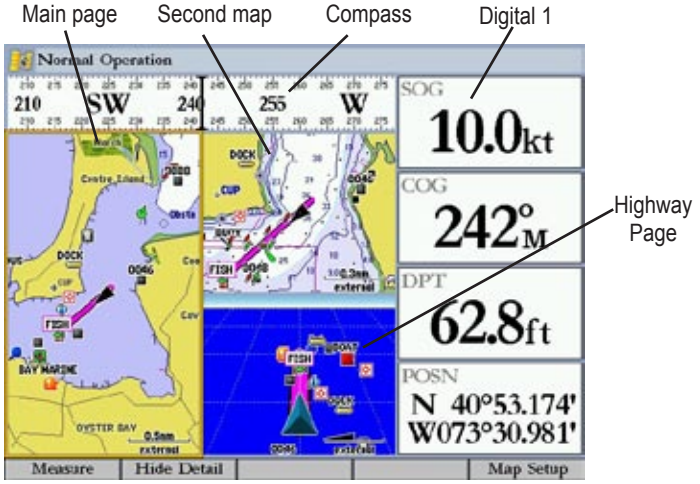
You can also display other functions, such as a compass, temperature log (if inputting Garmin or NMEA sonar data), or a second map (Map Page only). Digital data fields (Digital 1 and Digital 2) can be changed in size and type of data that is shown in each data field. As you add or remove functions and data fields, a preview window shows the layout.



Configuration Window

To add or remove functions on a main page:

1. Press and hold **DATA/CNFG** to open the Configuration window.
2. Using the **ROCKER**, highlight the function you want to add or remove, and press **ENTER**. Only functions with a check mark in the check box to the left of the name appear on the main page. The main page to which you are adding functions always appears either on the left side (two or three function windows) or in the upper-left (four or more function windows).
3. When finished, press **QUIT** to return to the main page.

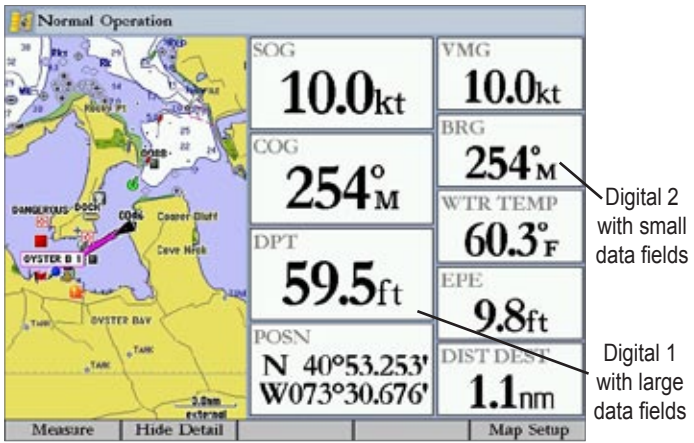


Map Page with Additional Functions

To change the size of the Digital data fields:

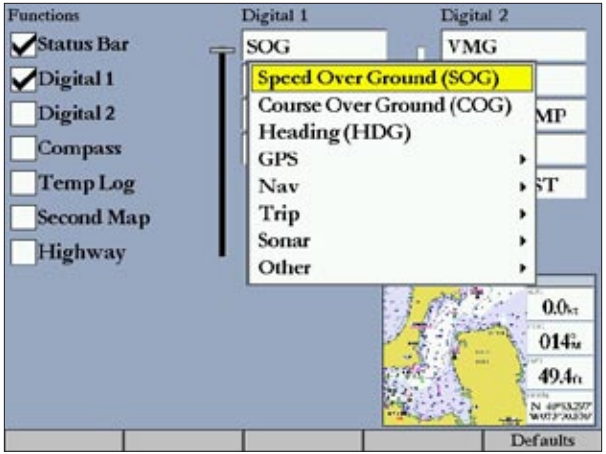
1. Press and hold **DATA/CNFG** to open the Configuration window.
2. Using the **ROCKER**, highlight the **Digital 1** or **Digital 2** adjustment slider, and press **ENTER**.

3. Press up on the **ROCKER** to display larger text with fewer data fields; press down on the **ROCKER** to display smaller text with more data fields. A preview of the data fields appears in the preview window. As you adjust the data field size, the configurable data fields automatically appear in the Digital 1 and Digital 2 lists.
4. Press **QUIT** to exit the slider adjustment. Press **QUIT** again to return to the main page.



To change Digital 1 or Digital 2 data fields:

1. Press and hold **DATA/CNFG** to open the Configuration window.
2. Highlight the data field you want to change, and press **ENTER**.



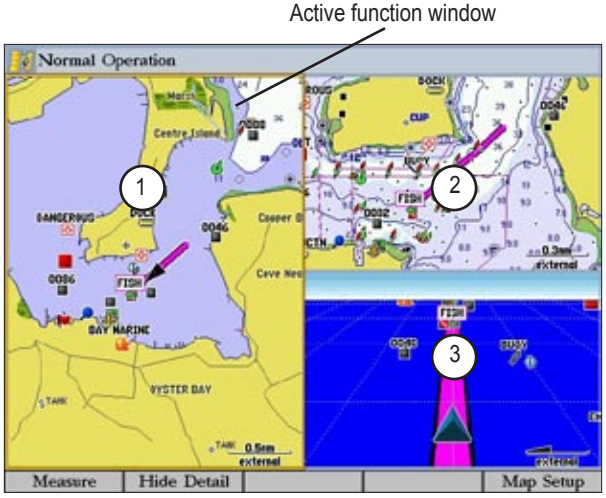
3. Press up or down on the **ROCKER** to highlight the type of data you want to show, and press **ENTER**.
4. Press **QUIT** to exit.

To restore the factory default configuration:

1. Press and hold **DATA/CNFG** to open the Configuration window.
2. Press the **Defaults** soft key.

Using Function Windows

You can add additional function windows to any of the main pages. After you configure a main page, press **FCTN** to cycle through the available function windows. The active function window is highlighted with a yellow box. Each time you press **FCTN**, the highlight moves in a clockwise motion (when three or more function windows are shown).



To cycle through function windows on a main page:

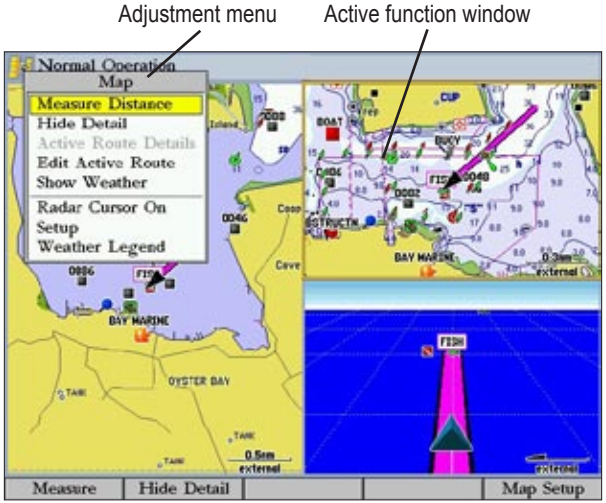
1. Press **FCTN**. The **Functions** menu appears with the next function on the list highlighted.
2. Each time you press **FCTN**, the next function window is highlighted. Press **ENTER** when the function window you want is highlighted. Functions that are not available appear dimmed and cannot be selected.

Function Window Adjustments

Each active function window (except the Compass) has specific adjustment (**ADJ** key)/soft key options and main page features. You can use options from the adjustment menu or soft keys to access adjustments or features for the highlighted function window. As you add optional hardware to the GPSMAP 3005C or Garmin Marine Network, adjustment menu choices may appear automatically. For specific instructions on adjustments and features for the highlighted function window, refer to the specific section (or manual) for that main page.

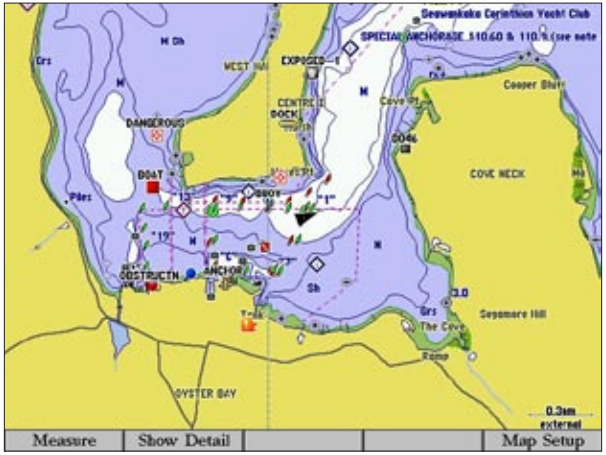
To show adjustment options for the active function window:

1. Press **ADJ**. The adjustment menu appears for the highlighted or active function window.
2. Use the **ROCKER** to highlight an option, and press **ENTER**.



Viewing a Main Page in Full-Screen Mode

Use the **DATA** key to view the main page in full-screen mode, without functions, the status bar, or digital data fields. Press **DATA** again to return to the previous view.

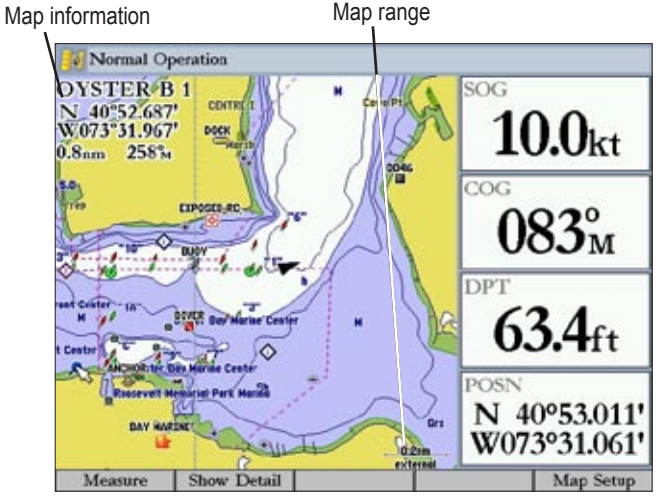


Map Page in Full-Screen Mode

Map Page

The Map Page provides comprehensive electronic cartography, plotting, and navigational data. When using optional BlueChart or MapSource maps, the Map Page shows your boat on a digital chart, complete with geographic names, map items, navaids, and other chart features. You can use your GPSMAP 3005C with the optional preprogrammed BlueChart g2 data cards, to view detailed roads and photographs. See the *BlueChart g2 User's Guide* for additional information about BlueChart g2 data.

When the map pointer is active, information appears in the upper-left corner of the map to indicate location, any identifying text, range, and bearing to the pointer or a selected waypoint or map item. The map range is shown in the lower-right corner of the map.



Map Page with BlueChart g2 Data

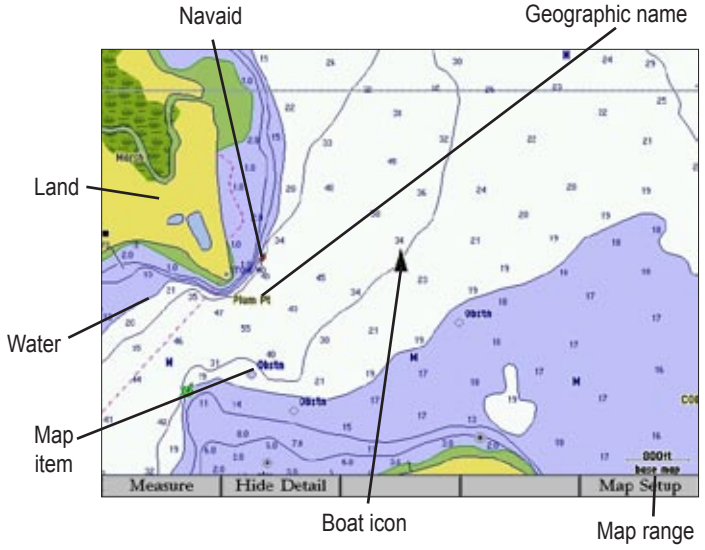
Use the **RANGE Up** and **RANGE Down** keys and the **ROCKER** to select zoom ranges and move the map pointer. Two basic map operating modes, Position mode and Pointer mode, determine what cartography (map data) is shown on the Map Page. Position mode pans the cartography to keep the current position marker within the display area, whereas Pointer mode pans the cartography to keep the map pointer within the display area.

The GPSMAP 3005C starts in Position mode, with your location centered on the map.

Press up, down, left, or right on the **ROCKER** to enter Pointer mode. In Pointer mode:

- You can move the map pointer over the map display using the **ROCKER.**
- When the map pointer reaches the edge of the display, the map scrolls forward under the pointer. Keep in mind that the boat icon moves with the map scrolling and may go off the screen (you might not be able to see your current location).
- When the map pointer is stationary, a fixed coordinate location appears in the position field. The distance and bearing change as the boat's location changes.
- When you change the range in Pointer mode, the map pointer is centered on the screen.
- To return to Position mode, press **QUIT**.

NOTE: When the map pointer reaches the edge of the map, the unit may pause as it loads new map data.

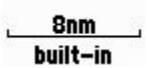


Using the Map Pointer

Controlled by the **ROCKER**, the map pointer is an important tool that can be used to pan to other map locations, mark and edit waypoints and routes, and review location data of on-screen map items and waypoints.

Selecting Map Ranges

The map display has 28 available range scales from 20 ft to 800 mi (5 m to 1200 km). The map range is controlled by the **RANGE Up** and **RANGE Down** keys, with the current range shown at the lower-right corner of the Map Page.



Using Built-In Basemap

Using BlueChart/MapSource Data

Overzoom, no additional data

To select a map range:

Press the **RANGE Up** key to zoom out or the **RANGE Down** key to zoom in.

NOTE: The scale value represents the distance from one end of the scale bar to the other.

Cartography

The GPSMAP 3005C has a built-in worldwide database, with more detailed coverage available through the use of optional BlueChart or MapSource data. The unit shows cartography as long as there is chart information available for the selected range.

The GPSMAP 3005C accepts preprogrammed data cards and is compatible with the latest BlueChart® g2 series marine cartography, which features integrated mapping, 2-D or 3-D map perspective, tide and current data, improved IALA symbols, navaids, marinas, boat ramps, roads, and more.

Map coverage conforms to the following conditions:

- Cartography appears when the selected zoom range is covered by either the internal database, BlueChart, or BlueChart g2 data.
- When the selected zoom range is covered by both the internal database and BlueChart or BlueChart g2 data, the cartography with the best resolution appears.
- When the selected zoom range exceeds the resolution of the data in use, overzoom cartography appears and an overzoom warning appears below the range.

Map Page Options

The Map Page provides access to functions and features relating to the Map Page (or Map function window) using the **ADJ** key and soft key options. The available options are: **Measure (Distance)**, **Hide (Show) Detail**, and **Setup**. As you add optional hardware to your GPSMAP 3005C or Garmin Marine Network, additional adjustment menu choices may appear automatically

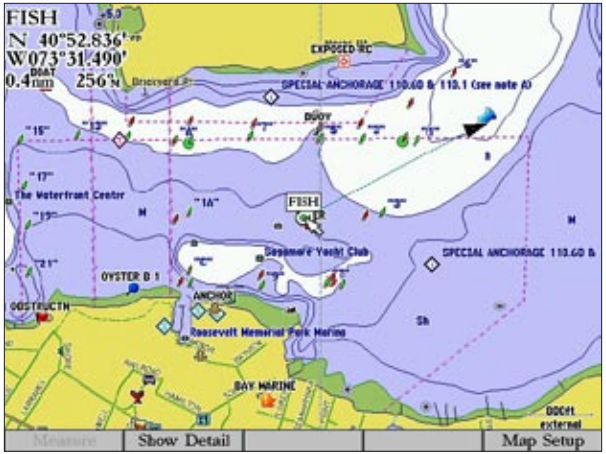
You can customize the Map Page to show other functions and different sizes or types of Digital Data fields.

Measuring Distance

Use the **Measure (Distance)** option to you to measure the distance and bearing between two points.

To measure the distance and bearing between two points:

1. Press the **Measure** soft key. An on-screen pointer appears on the map display at your present location with a blue thumbtack symbol to show the "From" reference point.
2. Using the **ROCKER**, move the pointer to the reference point (the point from which you want to measure), and press **ENTER**. The blue thumbtack symbol now appears at that point.
3. Move the pointer to the point that you want to measure to. The bearing and distance from the reference point and pointer coordinates appear in the upper-left corner of the Map Page.
4. Press **QUIT** to finish.



Measuring Distance

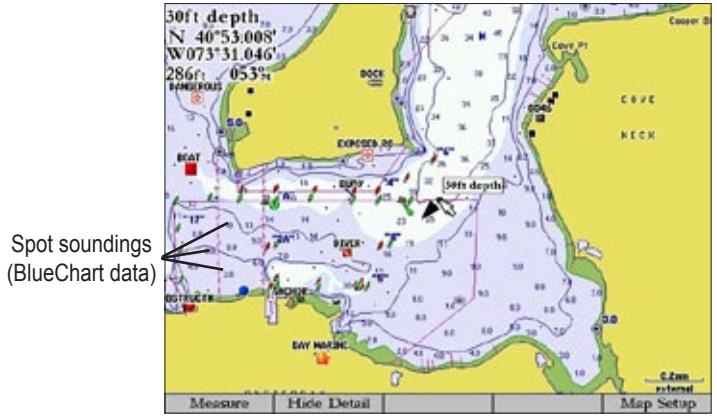
Hiding and Showing Map Details

Use the **Hide Detail (Show Detail)** soft key to toggle between showing or hiding Spot Soundings and Map Outlines for easier viewing.

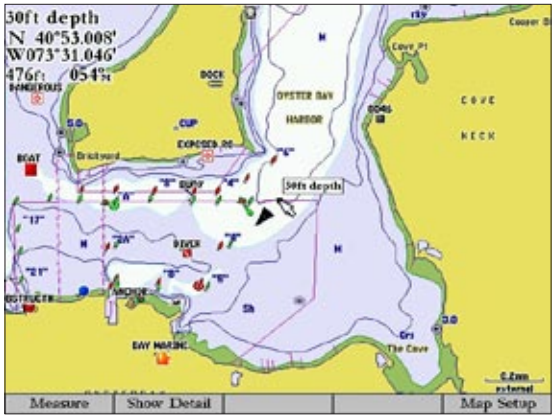
NOTE: This setting only affects the currently selected map. If you have a second map function shown, you can set one map to show detail and one map to hide detail.

To hide (show) map details:

Press the **Show Detail** soft key to show map details; press the **Hide Detail** soft key to hide map details.



Map with Detail Shown



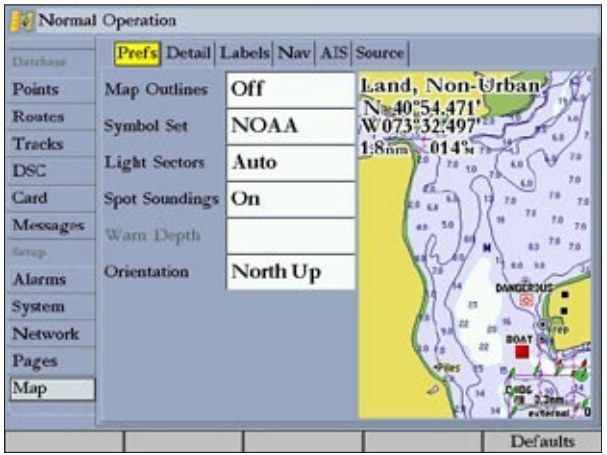
Map with Detail Hidden

Changing Map Setup Features

You can configure your map display preferences, including map detail, map orientation, automatic zoom, and various map items and points. When you select **Map Setup**, the Main Menu appears with the Map tab selected. The setup options are arranged in a horizontal, easy-to-use sub tab format, making it easier to organize and use the various settings. Changes made from the Map Setup option affect all maps.

To change a Setup feature:

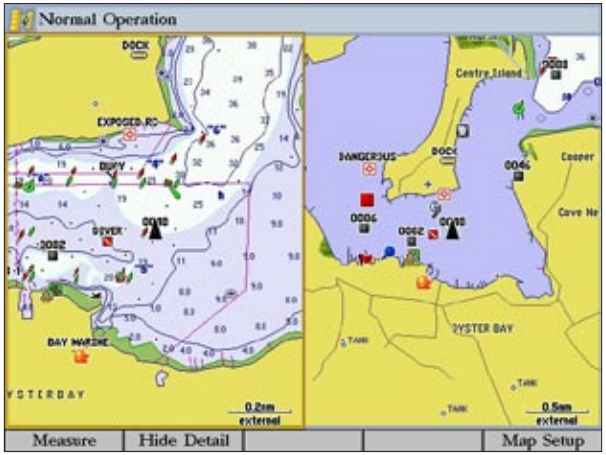
1. Press the **Map Setup** soft key. The Main Menu appears with the Map tab highlighted.



2. Press left or right on the **ROCKER** to highlight a sub tab, press up or down to highlight the setting you want to change, and press **ENTER**.
3. Press up or down on the **ROCKER** to select a different setting, and press **ENTER**.

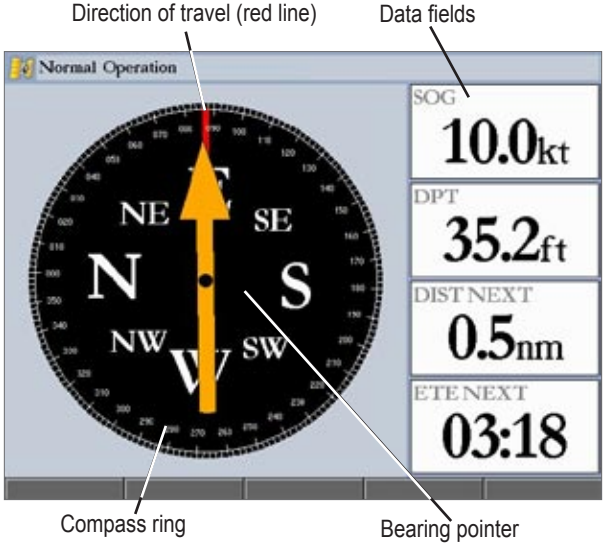
Map Split Page

Use the Map Split Page to show two different views of the Map Page.



Compass Page

The GPSMAP 3005C features two different navigation pages: Compass and Highway. Whenever a NAV Go To, Follow Track, TracBack, or Follow Route are activated, the Compass Page guides you to your destination with digital readouts and a compass display, which includes a Bearing Pointer.



For a the compass to work, the GPS has to be moving. When you are moving, the orange Bearing Pointer points toward your destination, while the Compass Ring reflects the direction you are traveling by a red vertical line at the top of the Compass Ring. When you are headed directly toward your destination, the Bearing Pointer points toward the top of the screen, aligned with the red vertical line shown at the top of the Compass Ring. If you are not heading toward your destination, the Bearing Pointer turns, continuing to point toward your destination. To head toward your destination, turn until the Bearing Pointer is aligned with the red vertical line in the Compass Ring.

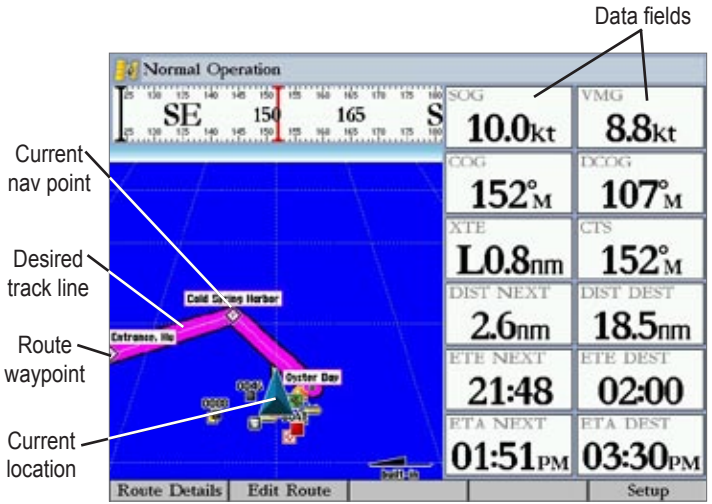
Along the right side of the screen are the default data fields; the top field is speed. Also shown are the distance to your waypoint (DIST NEXT) and estimated time en route (ETE NEXT). The distance and en route time decrease as you near your destination.

The Bearing Pointer or Compass Ring may point in various directions when you are stationary or at very low speeds. When you start moving, the pointer is correct.

You can customize the Compass Page to show other functions and different sizes or types of Digital Data fields. See "Configuring Main Pages" on page 30 for more information.

Highway Page

The Highway Page provides 3-D graphic steering guidance to a destination waypoint, placing greater emphasis on the straight-line course, and the distance and direction you are off course. As you head toward your destination, the middle of the screen guides you to a waypoint on a highway. Your present location is at the bottom-center of the Highway Page. Three-dimensional cartography provides situational awareness while navigating. The line down the middle of the highway represents your course.



As you head toward your destination, the highway perspective moves to indicate your progress to the waypoint and which direction you should steer to stay on course. If you are navigating a route, the Highway Page shows each route waypoint in sequence connected by a magenta "road" with a line down the

middle, which represents your course. To stay on course, steer toward the center of the highway. You can also view Routes details, nearby waypoints not in the active route, Track Log points, and Saved Tracks.

Changing the Highway Perspective Range

You can also zoom the highway perspective range in or out to display a larger or smaller view of the highway.

To change the highway perspective range:

Press the **RANGE Up** key to zoom out, or press the **RANGE Down** key to zoom in.

Highway Page Options

The Highway Page provides access to functions and features relating to the Highway Page (or Highway function window) using the **ADJ** key and soft key options.

The available **ADJ** soft key options are **Route Details**, **Edit Active Route**, **Show (Hide) Carto**, and **Setup**. As you add optional hardware to the GPSMAP 3005C or Garmin Marine Network, adjustment menu choices may appear automatically. You can also customize the Highway Page to show other functions and different sizes or types of digital data fields.

- **Active Route Details (Route Details)**—shows details such as distance, course, and other useful information for each waypoint of the active route.
- **Edit Active Route (Edit Route)**—allows you to review and modify the Active Route from either a list of the route points or on a map.
- **Hide (Show) Cartography**—toggles between hiding and showing map details. When cartography is hidden, route and course information is not shown.
- **Setup**—allows you to select what waypoints and tracks are shown on the Highway Page. Use the **ROCKER** and **ENTER** keys to select or clear options. The following options are available:
  - **Active Route Waypoints**—shows all active route waypoints.
  - **User Waypoints**—shows only nearby waypoints.
  - **Track Log**—shows the current active track log.
  - **Saved Tracks**—shows any saved track logs.

Showing or Hiding Cartography

When using optional preprogrammed BlueChart g2 data cards, you can view the cartography on the Highway Page.

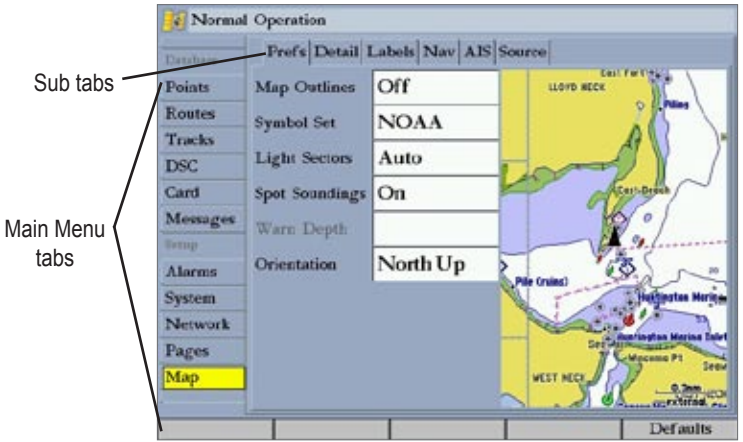
To view cartography on the Highway Page:

Press the **Show Carto** soft key to show the map cartography on the Highway Page. Press **Hide Carto** to return to the highway view.

Highway Page with Cartography Shown

Main Menu

The Main Menu provides access to various waypoint, system, navigation and interface management, and setup menus in an easy-to-use tab format. The Main Menu is accessible from any page by pressing **ADJ/MENU**. As you add optional hardware to the GPSMAP 3005C or Garmin Marine Network, additional Main Menu tabs or sub tabs may appear automatically. For specific instructions on additional adjustments and features, refer to the specific section (or manual) for that hardware device.

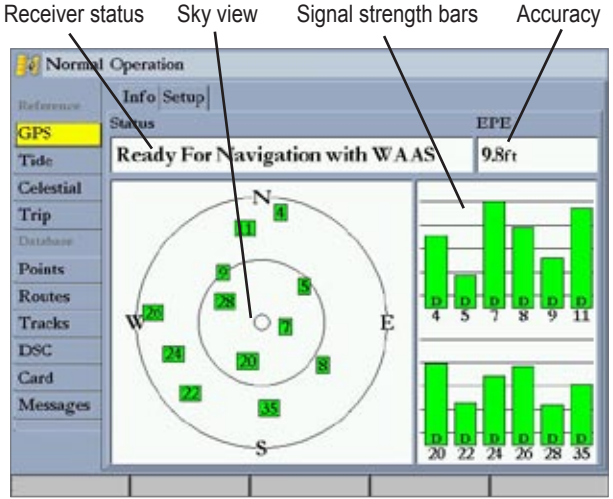


To select a tab from the Main Menu:

1. Press and hold **ADJ/MENU** to open the Main Menu.
2. Press up or down on the **ROCKER** to highlight the tab you want to view. (The highlight wraps around when you reach the top or bottom of the list.) The information for the highlighted tab automatically appears to the right. If you want to highlight any of the sub tabs, press left or right on the **ROCKER**, and then press up or down to select individual fields.

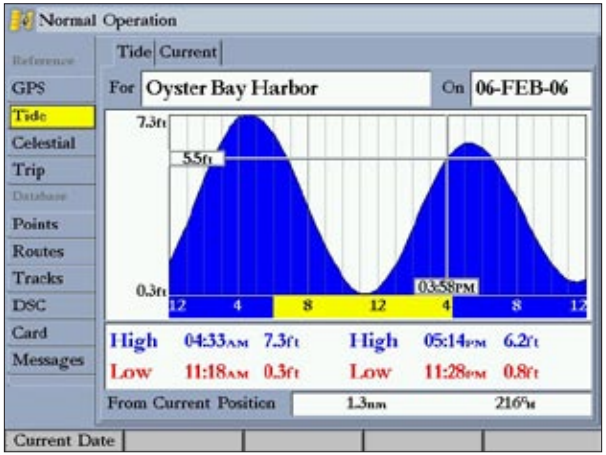
GPS Tab

The GPS tab provides a visual reference of satellite acquisition, receiver status, and accuracy. The sky view and signal strength bars give you an indication of what satellites are visible to the receiver and whether or not they are being tracked.



Tide Tab

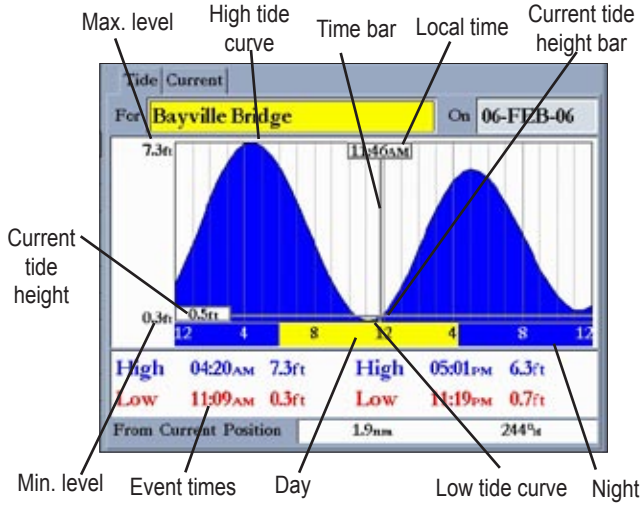
Use the Tide tab to view tide and current information. The Tide tab contains two sub tabs: Tide and Current.



Tide Sub Tab

The Tide sub tab contains a graphical chart that shows Tide Station information in a 24-hour span starting at midnight. You can choose from different dates and more than 3,000 Tide Stations around the U.S.A. coastline, Alaska, Hawaii, western Canada, and several of the Caribbean islands. The top of the Tide sub tab shows the Tide Station and the date. The bottom of the Tide sub tab shows the distance and bearing from your location.

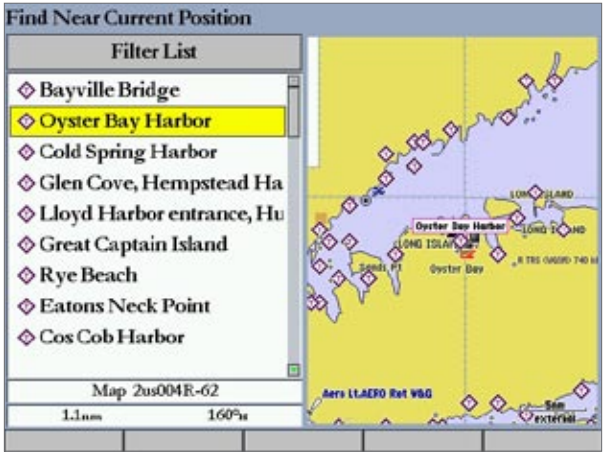
The bottom of the Tide chart shows a 24-hour block of local time for your location. Daylight (yellow bar) and nighttime (blue bar) at the Tide Station are shown across the time scale, with the time progressing from left to right (sunrise and sunset information might not be available for some Tide Stations). The solid, light vertical lines are in 4-hour increments, and the light, dotted vertical lines are in 1-hour increments. A solid, vertical line (with the local time at the top) indicates the tide height corresponding to the time shown in the local time box.



The Tide curve is shown as a shaded area, where higher tides are taller (blue) and lower tides are shorter (red). The solid, horizontal line indicates the tide height. The figure to the left of the line shows the present tide level. The Mean Lower Low Water (MLLW) appears as a solid, horizontal line near the bottom of the chart (this line appears only if the tide height range is zero or below). The numbers on the top and bottom of the left side indicate the maximum and minimum levels. The four data fields below the chart indicate event times and levels at which the tide changes, starting in the upper-left field, going downward, then to the upper-right, and down again. When comparing with other tide tables, verify that the depth units are the same for both sources. The bottom of the chart shows the amount of time (in hours and minutes) until the next low tide and high tide.

To select the Tide Station nearest to your location:

1. Highlight the **For** field, and press **ENTER** to open the Find Tides Page.
2. Highlight **Current Position**, and press **ENTER** to open the Find Near Current Position Page.
3. Select a Tide Station from the list, and press **ENTER**. As you move the highlight over each Tide Station in the list, the station is highlighted on the map window. The distance and bearing from your location to the highlighted Tide Station are shown at the bottom of the list.



Tide Stations Near Your Location

If you are not within range of a Tide Station, the message "None Found" appears. Use the Map Position option to select a location closer to a Tide Station.

To select a Tide Station from a map location:

1. Highlight the **For** field, and press **ENTER** to open the Find Tides Page.
2. Highlight **Map Position**, and press **ENTER** to open the Find Near Current Position Page.
3. Press up or down on the **ROCKER** to move the map pointer to a map location, and press **ENTER**. The Find Near Other Position Page shows a list of Tide Stations near the selected map location.
4. Select a Tide Station, and press **ENTER**. If the "None Found" message appears, repeat steps 1–3 until you find a Tide Station.

Viewing Tide Information

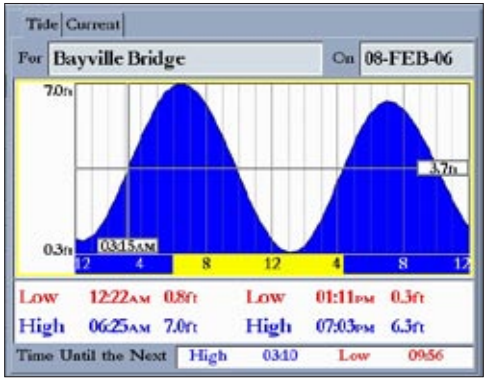
You can change the date to see tide charts for other days, or move the time bar in approximately five minute increments to show tide heights at various times.

To change the date of the tide chart:

1. Using the **ROCKER**, highlight the **On** field, and press **ENTER**.
2. Enter a date, and press **ENTER**. The tide chart is updated to show tide information for the selected date.
3. Press the **Current Date** soft key to return.

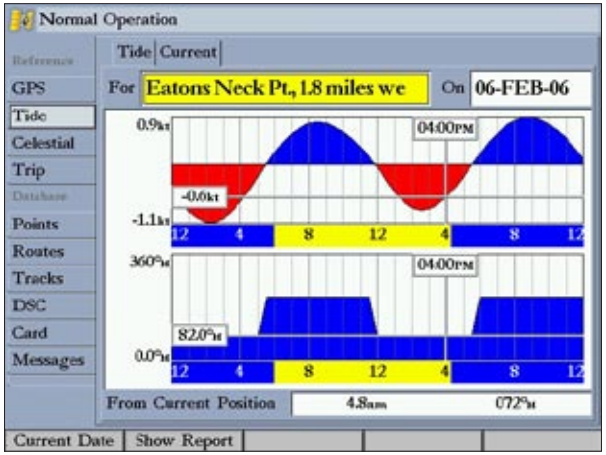
To view tide heights at various times on the tide chart:

1. Highlight the tide chart.
2. Press left or right on the **ROCKER** to change the time and day. The day changes as you move past the edge of the tide chart.



Current Sub Tab

The Current sub tab shows information for currents in a 24-hour span, starting at midnight. You can choose from different dates and more than 3,000 Current Stations around the U.S.A. coastline, Alaska, Hawaii, western Canada, and several of the Caribbean islands. The top of the Current sub tab shows the Current Station and the date. The bottom of the tab shows the distance and bearing from your location.



The Current sub tab contains two charts, one for speed and one for direction.

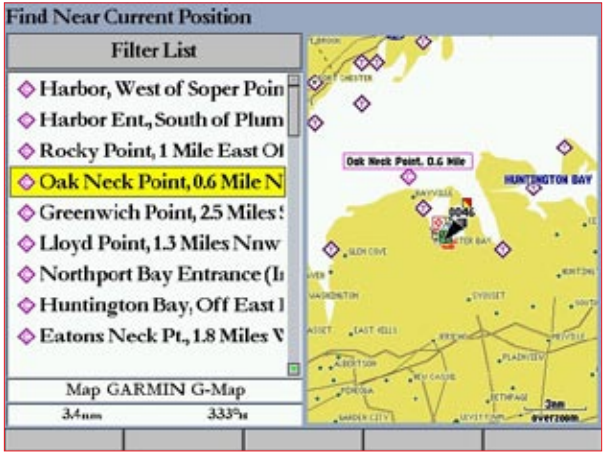
The top chart is the speed chart, which shows the speed of a given current at any point during the day. The shaded area is blue (Flood Current) when the current is heading toward shore; the shaded area is red (Ebb Current) when the current is heading away from shore.

The bottom chart is the direction chart, which shows the direction of the current at any given point during the day (based on the north reference, not true north.)

The bottom of each chart shows a 24-hour block of local time for your location. Day (yellow bar) and night (blue bar) at the Current Station appear across the time scale, with the time progressing from left to right (sunrise and sunset information may not be available for some stations). The solid, light vertical lines are in 4-hour increments, and the light, dotted vertical lines are in 1-hour increments. A solid, vertical line (with the local time at the top) indicates the strength of the current that corresponds to the time shown in the local time box.

To select the Current Station nearest to your location:

1. Highlight the **For** field, and press **ENTER** to open the Find Currents Page.
2. Highlight **Current Position**, and press **ENTER** to open the Find Near Current Position Page.



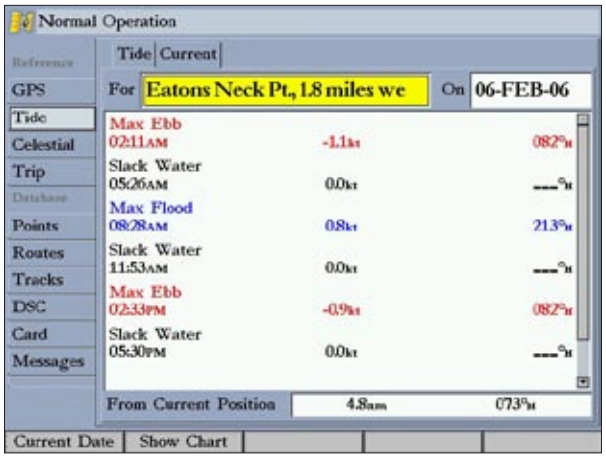
3. Select a Current Station from the list, and press **ENTER**. As you move the highlight over each Current Station in the list, the station is highlighted on the map window. The distance and bearing from your location to the highlighted station are shown at the bottom of the list.

To select a Current Station from a map location:

1. Highlight the **For** field, and press **ENTER** to open the Find Currents Page.
2. Highlight **Map Position**, and press **ENTER** to open the Find Near Current Position Page.
3. Press up or down on the **ROCKER** to move the map pointer to a map location, and press **ENTER**. The Find Near Other Position Page shows a list of Current Stations near the selected map location.
4. Select a Current Station, and press **ENTER**. If the "None Found" message appears, repeat steps 1–3 until you find a Current Station.

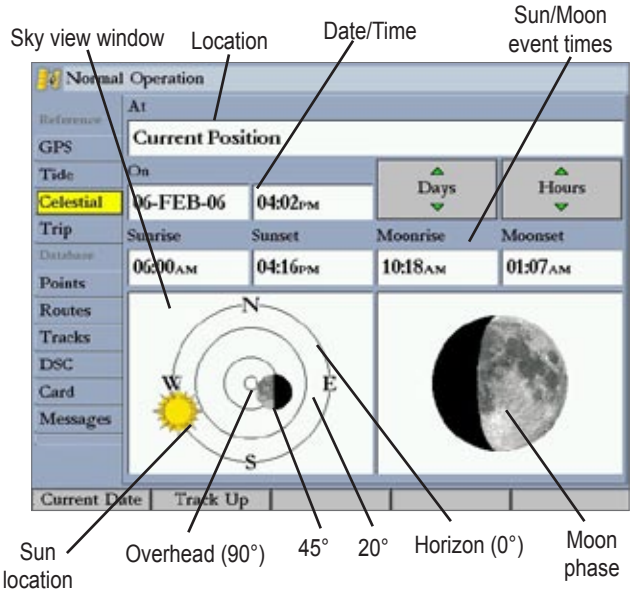
Viewing a Current Report

Press the **Show Report** soft key on the Current sub tab to view a detailed report of all times and values for all the minimum and maximum current flows throughout the day, including Flood, Slack, and Max Ebb times and strengths.



Celestial Tab

The Celestial tab shows celestial data for sun and moon rise and set, moon phase, and the approximate sky view location of the sun and moon. The moon phase shows the current visible portion of the moon as a light color. You can show this data for your current location, a location from the map, or a Find item location. Also, you can select a different date and time, or use the current date and time. The timetables shown are based on your current time zone.

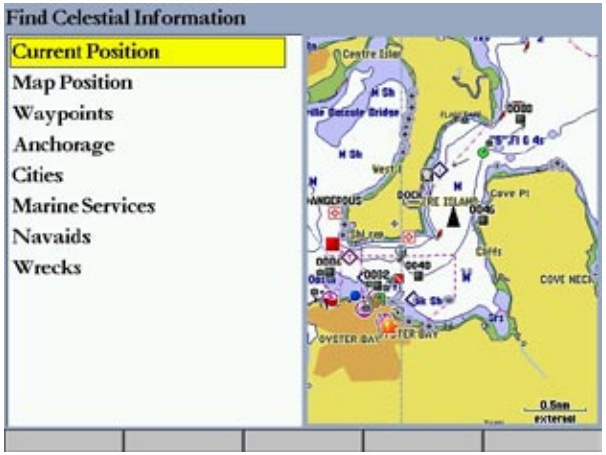


The Celestial tab contains the following soft keys:

- **North Up/Track Up**—sets the sky view to a north heading or to the current track heading.
- **Current Date**—press to show Celestial information for today's date.

To view celestial information for a different location:

1. On the **Celestial** tab, highlight the **At** field, and press **ENTER**. The Find Celestial Information Page appears.



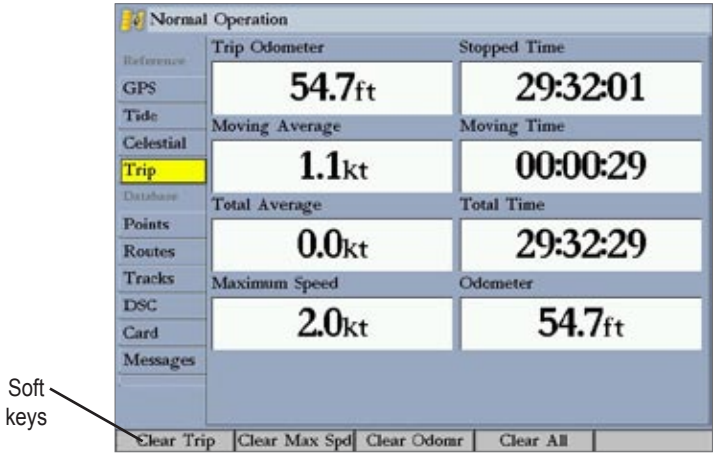
2. Make a selection and press **ENTER** repeatedly until the information for that location appears on the **Celestial** tab.

To change the time or date:

1. On the **Celestial** tab, use the **ROCKER** to highlight the **Days** or **Hours** button, and press **ENTER**. Press up or down on the **ROCKER** to change the days or hours. Press **QUIT** to exit.
   OR
   Highlight the **On** field, and press **ENTER**.
2. Enter a new date or time, and press **ENTER**.
3. To return to the current date and time, press the **Current Date** soft key.

Trip Tab

The Trip tab shows data for Trip Odometer, Moving Average speed, Total Average speed, Maximum Speed, Stopped Time, Moving Time, Total Time, and Odometer.



Trip Tab

The Trip tab contains the following soft keys:

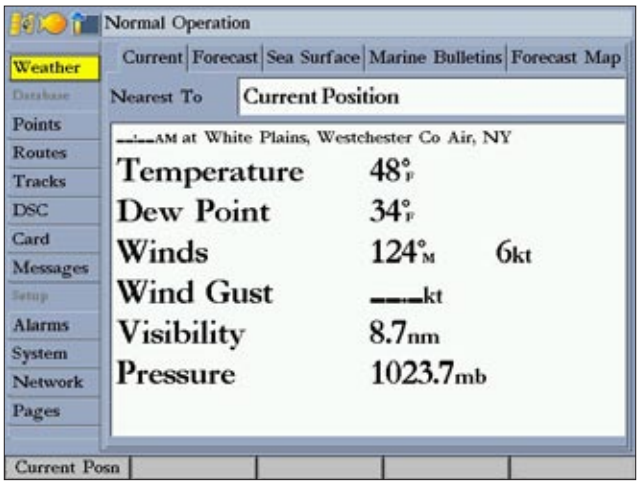
- **Clear Trip**—clears all trip data.
- **Clear Max Spd**—resets the value in the Maximum Speed field to **0.00**.
- **Clear Odometer**—resets the value in the Odometer field to **0.00**.
- **Clear All**—resets the values in all fields.

Weather Tab

The Weather tab shows current weather conditions, the forecast, sea surface information, and a forecast map. The Weather tab also contains a Setup sub tab that you can use to customize preset weather options.

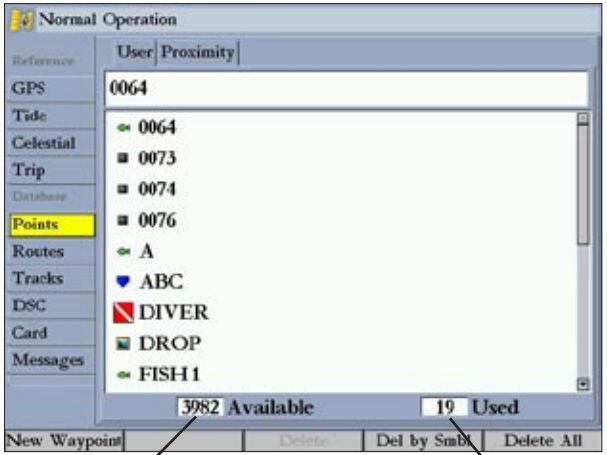
The Weather tab appears only if you have the **Weather** check box selected on the System tab. See the "XM WX Weather" section beginning on page 81 for more information.

NOTE: You **must** have a GDL30/GDL 30A Marine Weather/Audio Satellite Receiver installed and connected to your GPSMAP 3005C, and a subscription to XM WX Satellite Weather to use the XM Weather features.



Points Tab

The Points tab contains two sub tabs, User and Proximity, which allow you to manage a large number of waypoints quickly and efficiently. The sub tabs also provide a continuously updated proximity waypoint alarms that can be used to define items, such as submerged hazards or shallow waters.

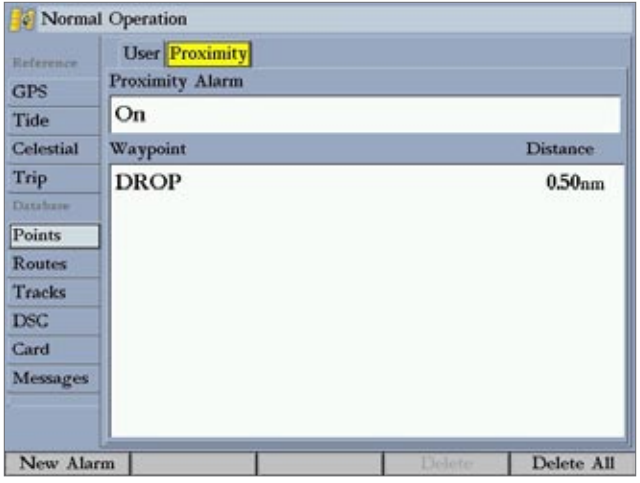


User Sub Tab

The User sub tab on the Points tab displays a master list of all waypoints currently stored in memory. From the User list, you can review, edit, rename, or delete individual waypoints, or delete all user waypoints. The total number of stored and available waypoints appears at the bottom of the User sub tab, with the stored waypoints arranged in alphanumeric order.

Proximity Sub Tab

Use the Proximity sub tab on the Points tab to define an alarm circle around a stored waypoint. The alarm circle can help you avoid reefs, rocks, or restricted waters. You can add proximity alarms to up to 10 waypoints, with a maximum alarm radius of 99.99 nautical or statute miles or kilometers.



Routes Tab

The Routes tab contains a list of available routes. See "Creating and Using Routes" beginning on page 23 for more information about creating routes.